XR-5520RDS/5620RDS

SERVICE MANUAL

AEP Model

Photo: XR-5620RDS

SPECIFICATIONS

Power amplifier section

Outputs: Speaker outputs (sure seal connectors)
Speaker impedance: 4 – 8 ohms
Maximum power output: 25 W x 4 (at 4 ohms)

Cassette player section

Tape track: 4-track 2-channel stereo
Frequency response: 30 – 16,000 Hz
Signal-to-noise ratio: XR-5520RDS 55 dB, XR-5620RDS

Cassette type	Dolby B NR ON	Dolby B NR OFF
TYPE II, IV	66 dB	58 dB
TYPE I	63 dB	55 dB

Wow and flutter: 0.13% (WRMS)

Tuner section

FM
Tuning range: 87.5 – 108.0 MHz
Antenna terminal: External antenna connector
Intermediate frequency: 10.7 MHz
Usable sensitivity: 8 dBf (75 ohms)
Selectivity: 75 dB at 400 kHz
Signal-to-noise ratio: 65 dB (stereo), 70 dB (mono)
Harmonic distortion at 1 kHz: 0.5% (stereo), 0.3% (mono)
Separation: 35 dB at 1 kHz
Frequency response: 30 – 15,000 Hz
Capture ratio: 2 dB

MW/LW (SW)
Tuning range: MW: 531 – 1,602 kHz, LW: 153 – 281 kHz, SW: 5,950 – 6,205 kHz
Antenna terminal: External antenna connector
Intermediate frequency: 10.71 MHz/450 kHz
Sensitivity: MW: 30µV, LW: 50 µV, SW: 50 µV

Model Name Using Similar Mechanism		XR-7030/4501
Tape Transport Mechanism Type	XR-5520RDS	MG-36SZ3-32
	XR-5620RDS	MG-36AS1-32

General

Output lead: Power antenna relay control lead, Power amplifier control lead
Tone controls: Bass ± 8 dB at 100 Hz, Treble ± 8 dB at 10 kHz
Loudness: +6 dB at 100 Hz, +6 dB at 10 kHz
Power requirements: 12 V DC car battery (negative ground)
Dimensions: Approx. 186 x 57 x 170 mm (w/h/d), not incl. projecting parts and controls
Mounting dimensions: Approx. 182 x 53 x 154 mm (w/h/d), not incl. projecting parts and controls
Mass: Approx. 1.3 kg
Accessories supplied: Mounting hardware (1 set), Power connecting cord (1), Front panel case (1)

Design and specifications subject to change without notice.

FM/MW/LW CASSETTE CAR STEREO

AEP Model

FM/MW/SW CASSETTE CAR STEREO

German Model

SONY®

MICROFILM

MC-Service

This section is extracted from instruction manual.

Features

General

- Detachable-front panel enables you to take the front panel away with you when you leave your car (page 9).
- Switchable two color illumination (amber and green) (page 8).
- Caution alarm will be activated if you turn off the ignition key without removing the front panel from the unit.
- Built-in high power amplifier (max. 25 W × 4) enables you to enjoy a 4-speaker system.
- Line output for connecting an optional power amplifier.
- Provided with a digital 24-hour clock (page 10).

Cassette player section

- Dolby B NR system* reduces tape hiss noises during the tape playback (page 8).
- AMS (Automatic Music Sensor)* for automatically locating the beginning of a selection during tape playback (page 12).
- ATA (Automatic Tuner Activation) for automatically turning on the tuner during the fast-forwarding or rewinding of a tape (page 8).

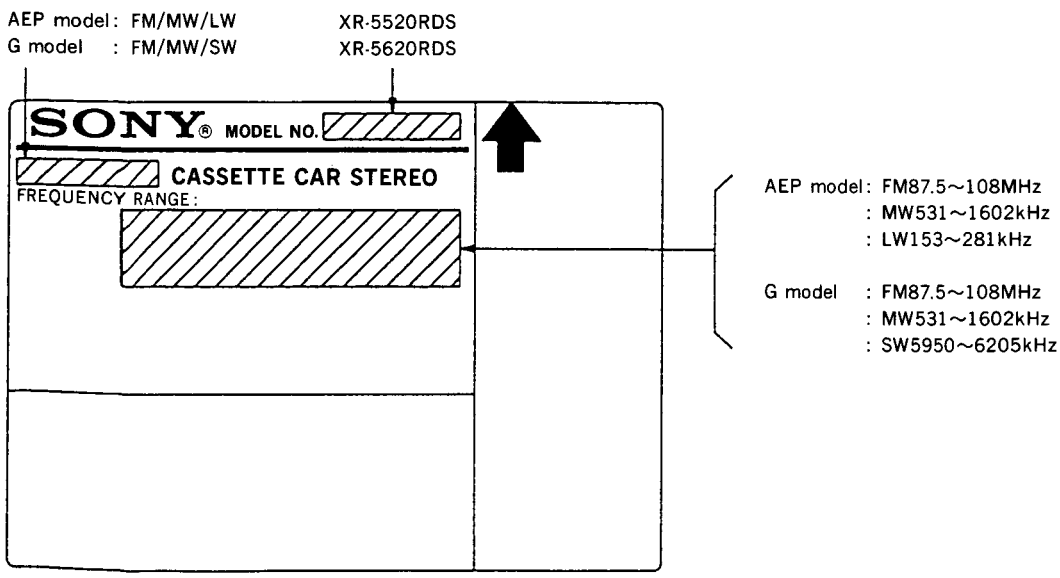
* XR-5620RDS only

Tuner section

- SSIR (Sony Super Interference Rejection) PLL synthesizer tuner
- Up to 30 stations can be preset, 18 stations on FM, 6 stations each on MW and LW (SW).
- The information services of FM RDS stations can be received. (page 17).
- Compatible with the RDS features such as EON (Enhanced Other Networks), AF (Alternative Frequency), TA (Traffic Announcement) and CT (Clock Time) function. (page 17).
- BTM (Best Tuning Memory) function automatically selects and stores the stations with strong signals on the preset number buttons in order of frequency (page 14).
- Memory Scan function scans each of the preset stations for five seconds in order (page 16).

MODEL IDENTIFICATION

—Model Number Label—



• Abbreviation
G: Germa n model

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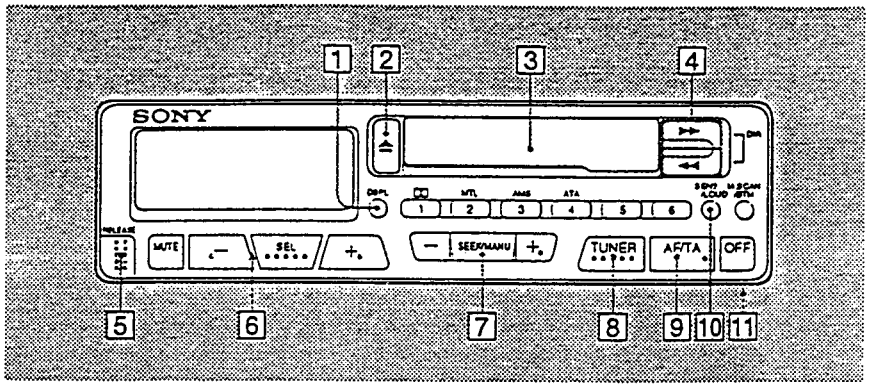
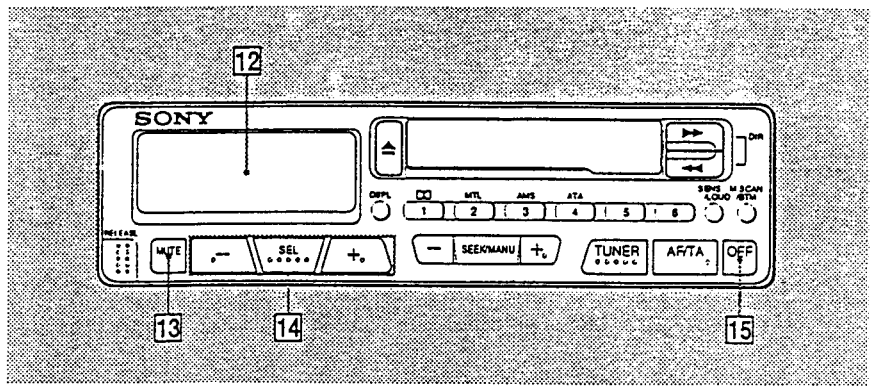
MC-Service

Location and Function of Controls





Refer to the pages in ● for details.

[1] DSPL (display change/time set) button ⑩
Each time the button is pressed, the display on the display window changes as follows:

During Tape playback	TAPE → Clock (TAPE → Clock → Frequency)*
During Radio reception	Frequency → Clock

* While the ATA function is activated.

[2] ≙ (eject) button
Press to stop tape playback and to eject the cassette.

[3] Cassette insertion door

[4] ◀◀/▶▶ (fast winding)/DIR (tape transport direction change) buttons ⑪ ⑫
During playback, press ◀◀ or ▶▶ for fast winding, or press both ◀◀ and ▶▶ simultaneously to listen to the other side of the cassette.

[5] RELEASE (front panel release) button ⑨

[6] Reset button (located on the front side of the unit hidden by the front panel)
Press this button when you use this unit for the first time, when you have changed the car battery, or when the buttons of this unit do not function.

[7] SEEK (automatic tuning)/MANU (manual tuning) button ⑬

[8] TUNER (radio on/band select) button ⑭
Each time the button is pressed, the band changes in order of:

FM1 → FM2 → FM3 → MW → LW (SW)

[9] AF/TA (alternative frequency/traffic announcement) button ㉑ ㉒
Each press of the button changes the function cyclically as follows:

AF → TA → AF/TA → none

[10] SENS/LOUD (sensitivity/loudness) button ⑮
Press for more than two seconds to reinforce the bass and treble especially when listening at a low volume level. To disengage the button, press it again for more than two seconds (loudness function).

[11] POWER SELECT switch (located on the bottom of the unit)
See the description about the POWER SELECT switch in the Installation/Connections manual.

[12] Display window

[13] MUTE button
Press to mute the sound momentarily.
Press again to restore the same volume level.
This button will be also canceled in the following cases:
— when the [+] button or the OFF button is pressed.
— when the ignition key of your car has been turned to the OFF position for more than 15 seconds.

[14] [−] [SEL] [+] buttons
Normally, the [−] [+] buttons are pressed to control the volume. Pressing the SEL button changes the mode as follows:

BAS (bass) → TRE (treble) → BAL (balance) → FAD (fader) → VOL (volume)

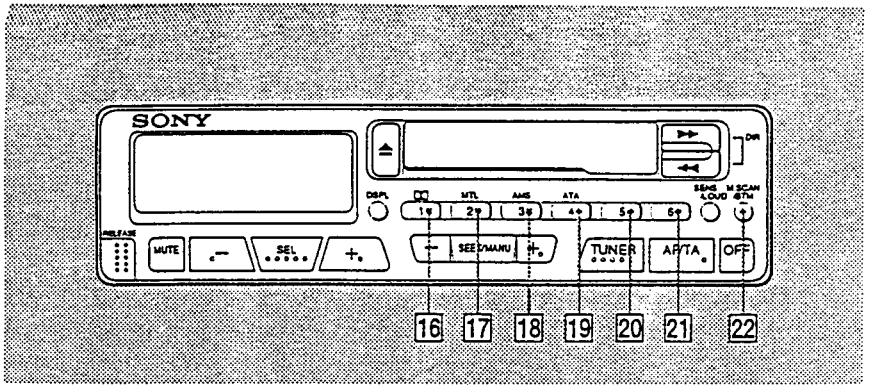
Press the [−] [+] buttons (to adjust the level) within two seconds, or the volume mode will return.

Display window	Control mode	Press [−]	Press [+]
BAS	Bass control	For less bass	For more bass
TRE	Treble control	For less treble	For more treble
BAL	Balance control	To decrease the right-speakers' volume	To decrease the left-speakers' volume
FAD	Fader control	To decrease the rear-speakers' volume	To decrease the front-speakers' volume
VOL	Volume control	For less volume	For more volume

[15] OFF (power off) button
Press to turn off the radio.

This section is extracted from instruction manual.

Location and Function of Controls



	During tape playback	During radio reception
16	DOLBY NR (Dolby B NR) button (XR-5620RDS only) Press when listening to a tape recorded in the Dolby B system. To cancel, press it once more.	Preset number buttons ⑮ ⑯
17	MTL (metal/CrO_2) button (XR-5620RDS only) Press when listening to a CrO_2 (TYPE II) or metal (TYPE IV) tape. To cancel, press it once more.	
18	AMS (Automatic Music Sensor) button ⑫ (XR-5620RDS only)	
19	ATA (Automatic Tuner Activation) button Press to make the tuner turn on automatically every time you fast-wind a tape. To cancel, press it once more.	
20	—	
21	—	
22	—	M.SCAN/BTM (Memory Scan/Best Tuning Memory) button ⑭ ⑯

Changing the illumination color

Press the DOLBY NR (1) button while pressing the ▲ button.
You can choose the color between amber and green.

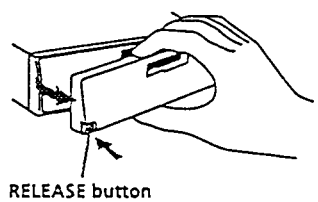
Muting a beep sound

Press the (6) button while pressing the ▲ button. To obtain the beep sound again, press these buttons again.

Detaching and Attaching the Front Panel

Detaching the Front Panel

Before detaching the front panel, be sure to press the OFF button first. Then press the RELEASE button to open up the front panel, and detach the panel by pulling it towards you as illustrated.

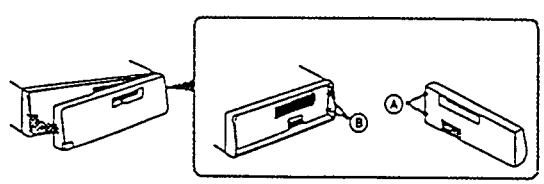


RELEASE button

Do not drop the panel when detaching it from the unit.

Attaching the Front Panel

Apply the right hand side of the front panel to the unit by attaching part Ⓐ of the front panel to part Ⓑ of the unit as illustrated and push until it clicks.

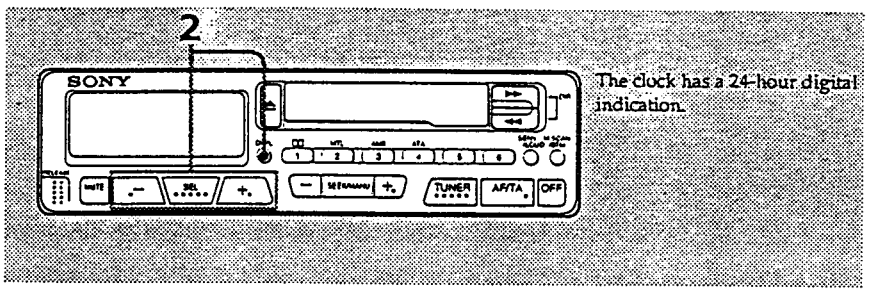


Do not press hard or apply excessive pressure to the display window of the front panel.

Caution alarm
If you turn the ignition key to the OFF position without removing the front panel, the caution alarm will be activated and a beep sound will be heard for a few seconds.

Notes
- Make sure that the front panel is the right way up when attaching it to the unit. It cannot be attached upside down.
- When attaching the front panel, do not press it hard against the unit. It can be easily attached by pressing lightly.
- Never leave the detached front panel in your car if it is parked in direct sunlight. There could be a considerable rise in temperature inside the car.
- When you carry the front panel with you, put it in the supplied front panel case.
- The display window may become warm while the unit is operated. This is not a sign of a malfunction.

Setting the Clock



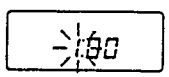
The clock has a 24-hour digital indication.

For example, set it to 10:08.

1 Turn the ignition key to the ON position.

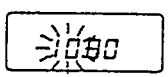
2 Press the DSPL button if the clock indication does not come on.

DSPL



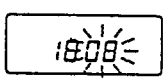
While Keeping the DSPL button pressed, proceed with the following:

Press either the [-] or [+] button to set the hour digits. (to go back) (to go forward)

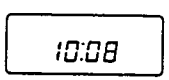


Press the [SEL] button.

Press either the [-] or [+] button to set the minute digits. (to go back) (to go forward)



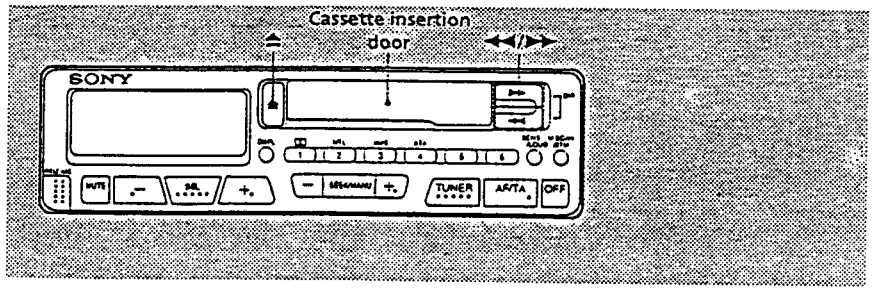
3 The clock starts activating when you take your finger off the DSPL button.



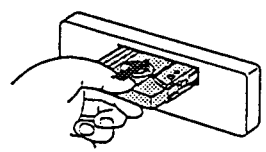
Note

If the POWER SELECT switch of the unit is set to the OFF position, the clock cannot be set unless the power is turned on. Set the clock after you turned on the radio, or tape playback.

Listening to the Tape Playback



Insert a cassette to start playback.
Playback starts automatically.



To listen to the reverse side of the cassette,

press [◄◄] [►►] simultaneously.

To Eject the Cassette and to Listen to the Radio

Press the ⏏ button.

To Wind the Tape Rapidly

Direction indicator*	To advance	To rewind
►	press [►►].	press [◄◄].
◄	press [◄◄].	press [►►].

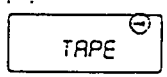
To resume playback, press [►►] or [◄◄] lightly so as not to depress it.

Note

Before turning off the unit; eject the tape to avoid tape damage.

Tape transport direction indication.

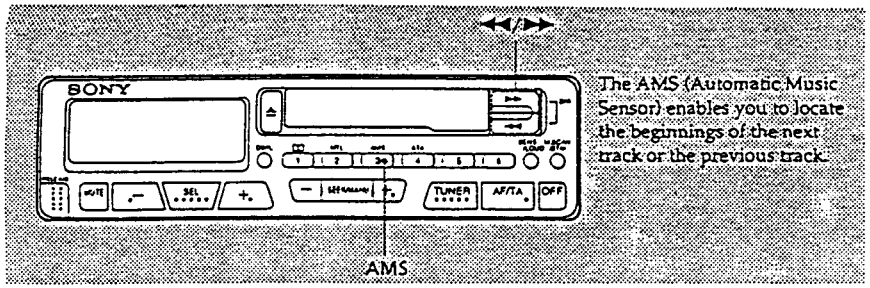
The side facing up is being played.



The side facing down is being played.

* "◄" or "►" indicator will flash while fast-winding the tape.

Listening to the Tape Playback



The AMS (Automatic Music Sensor) enables you to locate the beginnings of the next track or the previous track.

Locating a Desired Track — *AMS Function*

(XR-5620RDS only)

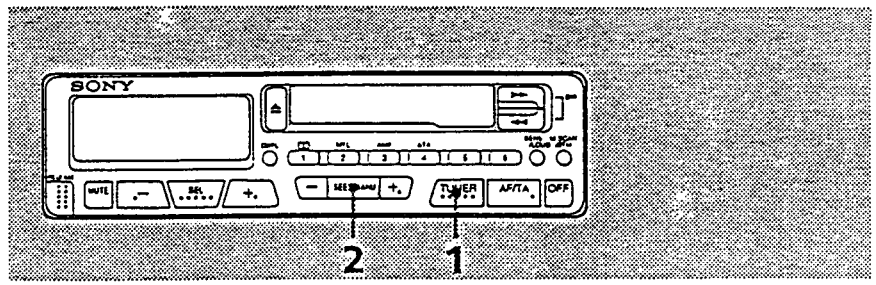
Press the AMS (3) button, then depress the ⏮ or ⏭ button to refer to the following table.

Indicator	Cassette side being played	Desired Track	
		Next Track	Currunt Track
►	side facing upwards	Press ⏭	Press ⏮
◄	side facing downwards	Press ⏮	Press ⏭

The AMS may not function properly, and the track beginnings may not be located when:
— tapes with noise between the tracks are used.
— tapes with less than four seconds of blank spaces between the tracks are used.
— you press the ⏮ or ⏭ button immediately before or after the track you want to locate.

The unit may consider the following as the blank spaces between tracks, and start playback:
— Long silent music sections on a track
— Quiet sections or a continuous low volume sound on a track
— Tracks which contain a gradual increase and decrease of the sound volume

Tuning in a Station



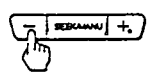
Searching for the Stations Automatically

— Automatic Tuning

1 Select the desired band.

TUNER

2 Press either side of the SEEK/MANU button lightly.



For lower frequencies

For higher frequencies

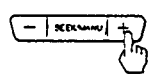
The scanning stops when a station in received. Press either side of the button repeatedly until the desired station is received.

Tuning in by Adjusting the Frequency

— Manual Tuning

Select the desired band, then press and hold either side of the SEEK/MANU button.

For lower frequencies



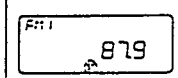
For higher frequencies

Release the button when the desired station is received.

At least two seconds after releasing the button, the system will return to Automatic Tuning. If you want to maintain Manual Tuning, press ▲ while holding down the SEEK/MANU button. To cancel, repeat this operation.

Note
Make sure that you press either side of the SEEK/MANU button lightly. If you keep it pressed, the button will function as the manual tuning button.

When an FM stereo program with a sufficient signal strength is tuned in



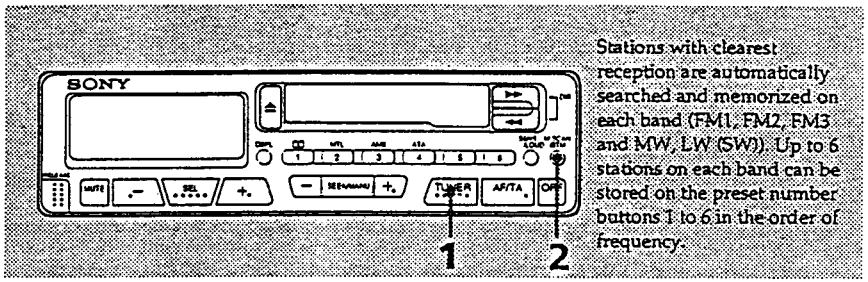
The "ST" indication will appear.

Avoiding the automatic tuning from stopping on stations too frequently (Local Seek Mode)
Press the SENS button lightly to get the "LCL" indication. Only the stations with relatively strong signals can be tuned in. The local seek mode functions only when the Automatic Tuning is in operation.

If FM stereo broadcasting is difficult to receive (Monaural Mode)
Press the SENS button lightly to get the "MONO" indication. The sound will improve, but it will become monaural.

PREVENTING ACCIDENTS!
While you are driving, the use of Automatic Tuning and the Memory Preset Tuning is recommended instead of the Manual Tuning.

Using the Memory Preset Function



Stations with clearest reception are automatically searched and memorized on each band (FM1, FM2, FM3 and MW, LW (SW)). Up to 6 stations on each band can be stored on the preset number buttons 1 to 6 in the order of frequency.

Memorizing the Stations Automatically

— BTM (Best Tuning Memory) Function

1 Select the desired band.

TUNER

2 Press the BTM button for more than two seconds.

M.SCAN /BTM

The receivable frequencies of FM1, FM2 and FM3 are the same.
Therefore, 18 stations can be memorized on FM.

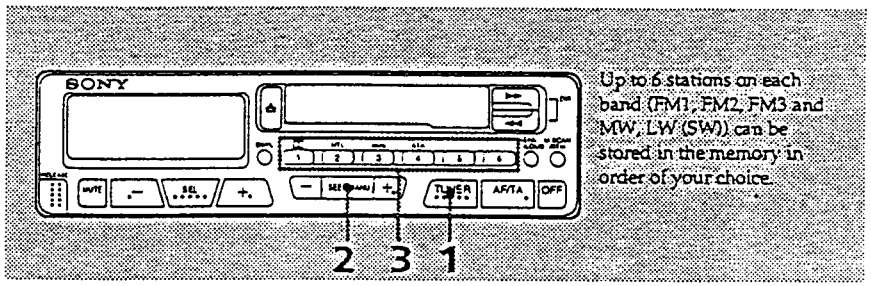
The BTM function

The BTM function searches all the receivable stations within the currently selected band and memorizes the ones in good receiving conditions in sequence from the lowest frequency.

How to memorize the stations on the preset number buttons

— When there is no preset number indicated on the display window: all the preset number buttons set in the currently selected band will be filled with the memories.
— When there is a preset number indicated on the display window: the unit will memorize the stations on the preset number buttons from the one currently being displayed. For example, when you choose FM1 and preset number 3 is being displayed, the operation will start from the preset number 3 on FM1 and stops at the preset number 6 on FM3.

Note
There may be cases where there are not enough receivable stations due to the lack of stations in the vicinity or weak broadcasting signals. In such cases, the BTM operation may stop without all the buttons being occupied with memories.



Up to 6 stations on each band (FM1, FM2, FM3 and MW, LW (SW)) can be stored in the memory in order of your choice.

Memorizing Only the Desired Stations

For example, store a station on the preset number button 1.

1 Select the desired band.

TUNER

2 Tune in the station which you wish to store on the preset number button (page 13).

— SEEK/MANU +

3 Keep the preset number button pressed for about two seconds until the "MEM" indication comes on in the display window.

1

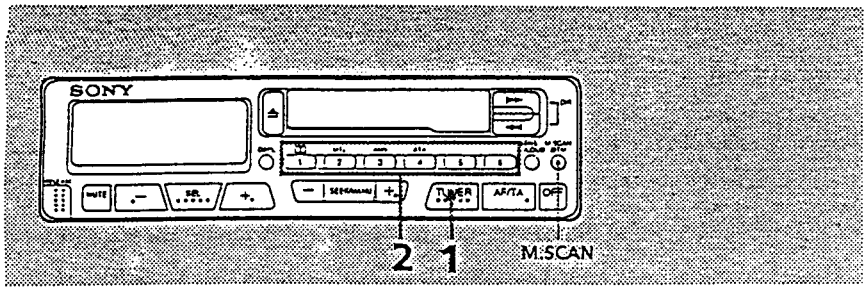
87.9

Repeat the same procedure to store other stations.

Only one station per band (FM1, FM2, FM3 and MW, LW (SW)) can be stored in the memory on each preset number button.
If you try to store another station on the same preset number button, the previously stored station will be erased.

When the "MEM" indication comes on, the station is stored in the memory and the operation is completed. The "MEM" indication goes off after a while.

Using the Memory Preset Function



Receiving Stations Stored in the Memory

1 Select the desired band.

TUNER

2 Press the desired preset number button lightly.

1 — 6

Notes

- There may be cases where even the stations which are stored in the memory cannot be received due to weak signals in the vicinity of your car.
- If you keep pressing the preset number button for more than two seconds, the currently received station will be memorized again. To receive the previously memorized station, make sure that the preset number button is pressed only lightly.

Checking in order, All the Stations Stored in the Memory

— Memory Scan Function

Press the M.SCAN button lightly.
The tuner will receive in order, all the stations stored in the memory for five seconds each. To cancel the function, press the button lightly once more.

Overview of the RDS Function

What is RDS?

The RDS (Radio Data System) is a radio digital information system developed and introduced in 1987 by the EBU (European Broadcasting Union). Using the 57 kHz sub-carrier of FM broadcasting, the RDS enables you to receive a variety of information such as station names and traffic information. It also offers some useful functions such as automatic re-tuning of the best available signal carrying the chosen program.

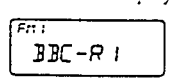
The RDS digital data includes the followings:

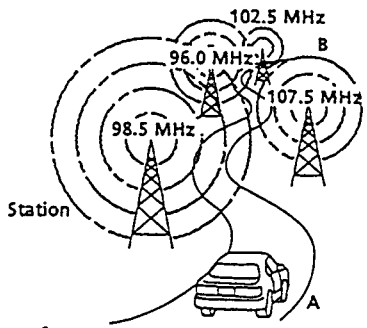
PI	Program Identification
PS	Program Service Name
AF	List of Alternative Frequencies
TP	Traffic Program
TA	Traffic Announcement
PTY	Program Type
EON	Enhanced Other Networks
CT	Clock Time

The following functions are available with this unit using the RDS data. Refer to the marked pages for the operational instructions.

Station Service Name Display *(page 20)*

This function displays the name of the station which is currently tuned in on the display window.





Automatic Re-tuning — AF Function (page 21)

This function automatically re-tunes in a station with a relatively stronger signal within the same broadcasting network using the PI and AF data.
The illustration above shows an example of a car passing through an area with four stations of the same broadcasting network between points A and B.
As the car moves on, the reception frequency of the station in the network changes from 98.5 MHz to 107.5 MHz then to 96.0 MHz and to 102.5 MHz.
By using the AF function, the driver will be able to keep listening to a program in the same broadcasting network without tuning in the station manually every time he enters a different frequency zone between points A and B.

Traffic Announcement Reception

— TA Function (page 23)

This function searches and stands by for a traffic announcement station using the TP and TA data.
Using this function, the unit automatically searches the station and changes its mode to receive the traffic announcement when the broadcast starts while you are listening to a tape.

Enhanced Other Networks

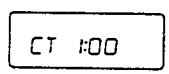
— EON Function (pages 22 and 23)

The EON function extends the faculty of the TA and TP functions by enabling the unit to track other stations transmitting the EON data while it is tuned to a network station.

Setting the Clock Using the CT Function of the RDS

The CT function of the RDS enables the built-in clock in the unit to automatically synchronize with the CT data being received by the tuner section of the unit.

To activate the CT function, press the MTL 2 button while pressing the SEL button. The "CT " indication will appear on the display window.



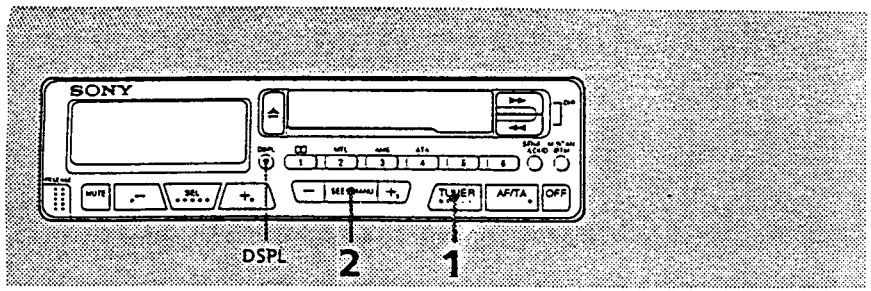
To cancel the function, press these buttons again.

If the CT function is being activated while you adjust the clock manually, the clock will be automatically adjusted by the CT data the next time the unit receives it.

Note
Even if you are listening to a network station, the unit will automatically monitor other stations. When there is a local traffic information broadcast, the unit will automatically tune to that station and re-tunes to the previous station when the broadcast is over.

Note
There may be cases when the CT function may not be activated even if an RDS station is being received.

Station Service Name Display



1 Select the FM band.

TUNER

2 Tune in a desired station by using the Automatic Tuning or Manual Tuning (page 13).

– SEEK/MANU +

If the unit is set in the station name display mode and a station transmitting the RDS data is received, the name of the that station will be displayed on the display window.

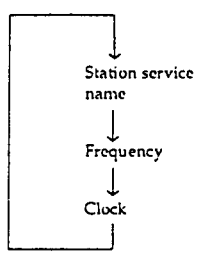
When the "-------" indication appears on the display window in the station name display mode
The received station is not an RDS station.

When the unit is in the frequency display mode and an RDS station is received
The "*" display will come on to indicate that an RDS station is received. To find out the name of the station, press the DSPL button to change the display mode.

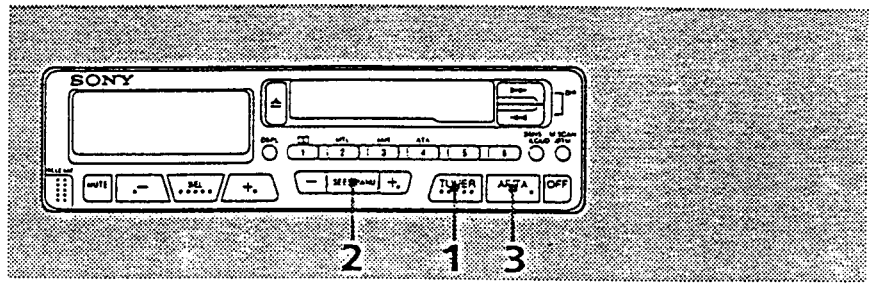
Notes

- The RDS data can be received only on the FM band.
- The RDS functions of this unit will not be activated if the FM station being received is not transmitting the RDS data. It may also not work properly in areas where the RDS transmissions are in the experimental stage.

You can change the display mode by pressing the DSPL button
Each time you press the button, the display mode changes as follows:



Automatic Re-tuning — AF Function



1 Select the FM band.

TUNER

2 Tune in a desired RDS station by using the Automatic Tuning or Manual Tuning (page 13).

– SEEK/MANU +

3 Press the AF/TA button to get the "AF" indication.

AF/TA

If the signal level of the tuned in RDS station falls below a certain point, the unit will begin to search for an alternative station with a stronger signal in the same network from the AF data (List of Alternative Frequencies). If a stronger signal station is found, the unit re-tunes in the station.
If no strong station is found, the "NO AF" display and programme station name both flash.

Notes

- When the "AF" indication appears on the display window, only the RDS stations can be tuned in by the Automatic Tuning.
- If the tuned in RDS station is not transmitting the AF data, this function will not work.
- If you press the AF/TA button while the MW, LW (SW) band is tuned in, the FM1 band will be automatically selected.

Selecting REG ON or REG OFF

Press the AF/TA button for more than two seconds. The unit gives a confirmation beep. The "REG ON" or "REG OFF" indication will appear on the display window. (There may be cases that this function may not be activated in some areas especially in the United kingdom and outside Germany.)

Regional Programmes
Sometimes a national radio network broadcasts regional programmes. With the RDS function, you can switch "regional checking" on (REG ON) or off (REG OFF).

REG ON: The tuner remains tuned to the current regional programme.
REG OFF: The tuner may retune to another regional programe in the network.

Network Stations Memory

When the unit stores an RDS station transmitting the AF data on a preset number button, it stores not only its frequency but also its PI and AF data. The AF data carries the information of the list of the frequencies of the stations within the same broadcasting network. The unit will store the data in its memory whether the AF function is activated or not.

PI Sorting with the BTM Function

You can automatically store the RDS stations in order of their PI codes on the preset number buttons. If the AF function is activated when you initialize the BTM function (page 14), the RDS stations transmitting the PI data will be searched and stored in order on the preset number buttons. Likewise you can store the traffic information stations in the same way by TA function before activating the BTM function. (See page 23 about the TA function.)

Getting the Stored RDS Stations in Tune from the Broadcasting Networks

Be sure to press the preset number buttons after pressing the AF/TA button to activate the AF function. The AF function will select a better signal station by re-tuning within the network stations. If you press the preset number buttons without activating the AF function, you will not be able to use this function. In this case, you will only get the individual stations which were tuned in on the previous occasion. The unit will not re-tune to the other stations in the network even if they are stored in the memory.

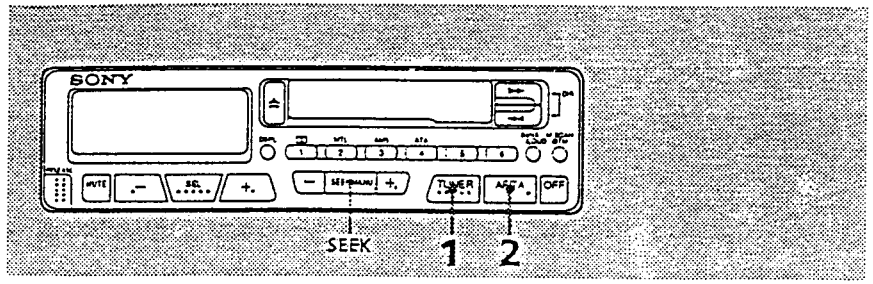
Local Link Function — *United Kingdom Only*

If you cannot receive the local station which you have previously stored on one of the preset number buttons or if you do not like the currently broadcasted program on the stored local station, you can receive alternative local station(s) by pressing the same preset number button within five seconds of initial reception. If there are several receivable alternative local stations available in the vicinity, press the same preset number button several times until the desired station is received.

RDS Stations Transmitting the EON Data

The EON data incorporates the AF data of other stations as well. Therefore, the unit can update the AF data of the preset stations and these stations will be tuned in the next time the preset number buttons are pressed.

Receiving Traffic Announcement — *TA Function*



Receiving a Traffic Information Station

1 Select the FM band.

TUNER

2 Press the AF/TA button to get the "TA" indication.

AF/TA

The search for a traffic information station will start. When an RDS station transmitting the TP data is found, the search stops and the "TP" indication will come on the display window.

To search another RDS station transmitting traffic announcement
Press the SEEK/MANU button while the "TA" indication is still on the display window.

If the TA function is activated while the unit is receiving a station which is transmitting the EON data, the "TA", "TP" and "EON" indications will come on the display window. In this case, if another station starts broadcasting a traffic information, the unit will automatically tune to that station. When the broadcast is over, the unit will re-tune to the previous station.

To cancel the reception of traffic announcements by other stations

Press the AF/TA button until the "AF, TA - OFF" indication appeears on the display window.

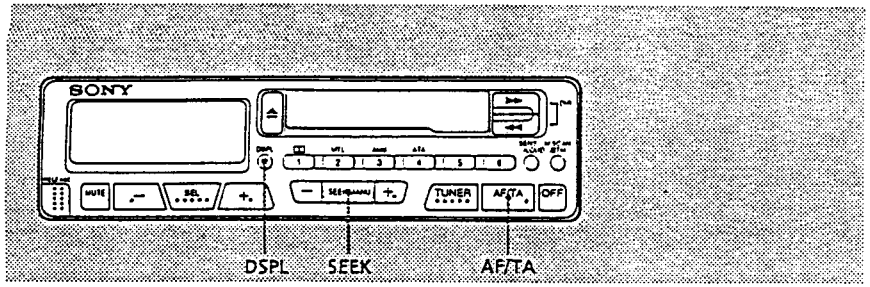
Notes

- Do not activate the TA function in an area where there is no traffic announcement broadcasting service available. If you do so, the unit will keep searching for it and other stations cannot be tuned in.
- If you activate the TA function while the MW, LW (SW) band is tuned in, the FM1 band will be automatically selected and the unit will start searching for a traffic announcement station.
- When the traffic information cannot be received, after the "NO TP" display flashes for four seconds, it begins to search automatically for a station whose traffic information can be received.

"TA" indication
This indicates that the traffic announcement is on the air.

"TP" indication
This indicates that the currently tuned in RDS station offers a traffic announcement service.

"EON" indication
This indicates that the unit is receiving the station transmitting the EON data.



Standing by for Traffic Announcement while Listening to a Tape Playback

Press the AF/TA button to get the "TA" indication during a tape playback.

AF/TA

The playback continues while the unit searches for a traffic announcement station.

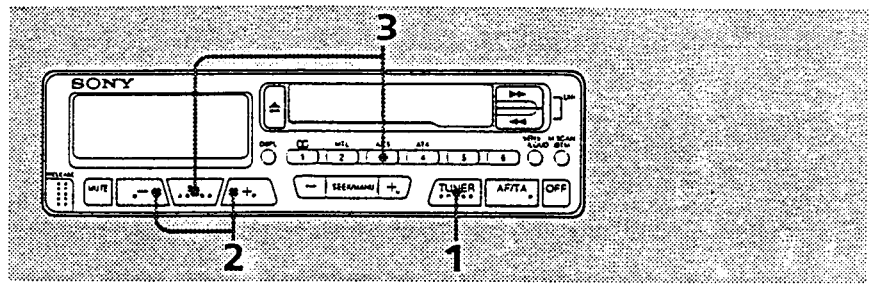
When a station is found:
The "TP" indication will come on the display window.

When a traffic announcement broadcasting starts:
The "TA" indication will start flashing. The tape stops and the traffic announcement will be heard.

When the broadcasting is over:
The tape playback resumes from where it was left off.

To cancel the stand-by mode
Press the AF/TA button to turn off the "TA" indication.

Changing the display to that of the frequency or station name during tape playback
Press the DSPL button a few times. While the frequency or station name is being displayed, the SEEK button and preset number buttons will function in the same way as they do during a radio reception.



Traffic Announcement is Heard at the Preset Volume Level

When a traffic announcement broadcast starts, you can hear it at the preset volume level even if the volume control on the front panel has been turned down. (If you are listening to other sources with higher volume level, the level will not change.) The preset volume level can be set in the following manner:

1 Select the FM band.
2 Adjust the volume to the desired level with the − or + button while "TA" indication is flashing.
3 Press the 3 button while pressing the .. button.
A beep sound will be heard and the setting is completed.

PTY (alarm) Data Reception

In case of an emergency, or in a situation where there may be danger from a natural disaster in the area, the RDS stations will transmit the PTY data information to warn drivers that they are in danger. The data includes the character display and the interruption signal for automatically turning on the radio. This data can be received while the AF or TA function is being activated. If the unit receives the PTY data from an RDS station during tape playback, the "AF" indication on the display window will start flashing and the tape playback will stop. The radio will be automatically turned on to receive the emergency announcement from the station.

Installation

Precautions

- Choose the installation location carefully so that the unit will not hamper the driver during driving.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight or hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.
- Before installing the unit, detach the front panel.

Mounting angle adjustment
Adjust the mounting angle to less than 20°.

How to Detach and Attach the Front Panel

To detach
Press the RELEASE button to open the front panel, then pull it out.

To attach
Align parts Ⓐ and Ⓑ, and push the front panel until it clicks.

Installation

Précautions

- Choisir soigneusement l'emplacement de l'installation, pour ne pas gêner la conduite.
- Eviter d'installer l'appareil là où il serait soumis à des températures élevées, comme en plein soleil ou à proximité d'une bouche d'air chaud, à de la poussière, de la saleté ou des vibrations violentes.
- Pour garantir un montage sûr, n'utiliser que le matériel fourni.
- Avant d'installer l'appareil, veiller à enlever le panneau avant.

Réglage de l'angle de montage
Ajuster l'inclinaison à un angle inférieur à 20°.

Dépose et pose du panneau avant

Dépose
Appuyer sur la touche RELEASE avant d'ouvrir le panneau avant, puis le tirer vers vous.

Pose
Aligner les pièces Ⓐ et Ⓑ et pousser le panneau avant jusqu'à enclenchement.

Installation

Vorsichtsmaßnahmen

- Wählen Sie den Einbauort sorgfältig so aus, daß das Gerät die Bedienung des Fahrzeugs nicht behindert.
- Bauen Sie das Gerät so ein, daß es keinen hohen Temperaturen (direktes Sonnenlicht, Warmluft von Heizung), keinem Staub, keinem Schmutz und keinen starken Vibrationen ausgesetzt ist.
- Für eine sichere Befestigung verwenden Sie stets nur die mitgelieferten Montageteile.
- Nehmen Sie die Frontplatte vor dem Einbau des Geräts ab.

Hinweis zum Montagewinkel
Das Gerät sollte in einem Winkel von weniger als 20° montiert werden.

Zum Abnehmen und Anbringen der Frontplatte

Zum Abnehmen
Drücken Sie die RELEASE-Taste zum Lösen der Frontplatte und ziehen Sie sie ab.

Zum Anbringen
Richten Sie Teil Ⓐ auf Teil Ⓑ aus und drücken Sie die Frontplatte fest, so daß sie mit einem Klicken einrastet.

Installazione

Precauzioni

- Scegliere con attenzione il luogo di installazione in modo che l'apparecchio non interferisca con le operazioni di guida del conducente.
- Evitare di installare l'apparecchio dove sia soggetto ad alte temperature, come da esposizione alla luce solare diretta o al getto di aria calda dell'impianto di riscaldamento, o dove possa essere soggetto a polvere, sporco e vibrazioni eccessive.
- Usare solo il materiale di montaggio in dotazione per un'installazione stabile e sicura.
- Prima di installare l'apparecchio staccare il pannello anteriore.

Regolazione dell'angolo di montaggio
Regolare l'angolo di montaggio in modo che sia inferiore a 20°

Come staccare e attaccare il pannello anteriore

Per staccare
Premere il tasto RELEASE per aprire il pannello anteriore e quindi tirarlo verso l'esterno.

Per attaccare
Allineare le parti Ⓐ e Ⓑ e spingere il pannello anteriore fino a udire uno scatto.

Montage

Voorzorgsmaatregelen

- Kies met overleg een plaats voor het apparaat. Let er goed op dat de bestuurder bij het rijden geen hinder van het apparaat ondervindt.
- Monteer het apparaat niet op een plaats waar dit blootgesteld staat aan hoge temperaturen (direkt zonlicht, in de buurt van een warmeluchtrooster van de verwarming e.d.). Vermijd ook stoffige en vuile plaatsen alsmede plaatsen waar het apparaat blootgesteld staat aan trillingen.
- Gebruik uitsluitend het bijgeleverde montage-materiaal voor het inbouwen van het apparaat.
- Verwijder het voorpaneel alvorens u het apparaat inbouwt.

Toelaatbare inbouwhoek
De inbouwhoek moet minder dan 20° zijn.

Verwijderen en weer aanbrengen van het voorpaneel

Verwijderen
Druk op de RELEASE toets zodat het voorpaneel ontgrendeld wordt en verwijder dit vervolgens van het apparaat.

Aanbrengen
Zorg dat punt Ⓐ en punt Ⓑ tegenover elkaar liggen en druk het voorpaneel dan aan, totdat dit vastklikt.

Instalación

Precauciones

- Elija cuidadosamente el lugar de instalación de forma que la unidad no impida la conducción.
- Evita instalar la unidad donde pueda quedar sometida a altas temperaturas, como a la luz solar directa o al aire caliente de calefacción, o a polvo, suciedad, o vibraciones excesivas.
- Para realizar una instalación segura y firme, emplee solamente la ferretería de montaje suministrada.
- Antes de instalar la unidad, extraiga el panel frontal.

Ajuste del ángulo de montaje
Ajuste el ángulo de montaje a menos de 20°.

Forma de extraer e instalar el panel frontal

Para extraerlo
Presione la tecla RELEASE para abrir el panel panel frontal, y después tire de él.

Para instalarlo
Alinee las partes Ⓐ y Ⓑ y empuje el panel hasta que quande enganchado.

Instalação

Precauções

- Escolha com cuidado um local apropriado para a instalação do aparelho para este não dificulte a condução do veículo.
- Evite instalar o aparelho onde este possa estar sujeito a altas temperaturas, tais como em locais expostos directamente à luz do sol, ou a o ar quente da calefacção, ou sujeitos a pó, sujidade ou vibração excessiva.
- Utilize somente o jogo de montagem fornecido para efectuar uma o instalação segura.
- Antes de inciar a insta;ação do aparelho, remova o painel frontal.

Ajuste do ângulo de montagem
Ajuste o ângulo de montagem a monos de 20°.

Para retirar e colocar o painel frontal

Para remover
Pressione a tecla RELEASE para liberar o painel frontal, e a seguir puxe-o.

Para colocar
Alinhe as partes Ⓐ e Ⓑ, e fixe o painel frontal pressionando-o até que este se encaixe.

Montering

Att observera

- Var noga vid valet av bilstereons monteringsläge i bilen. Välj lägetsa att bilstereon inte utgör ett hinder vid bilkörning.
- Montera inte bilstereon pa platser, där den utsätts för värme, som t. ex. solsken och varmluft, eller där den utsätts för smuts, damm och/eller vibrationer.
- Använd endast de medförljande monteringstillbehören för att vara säker pa att bilstereon monteras pa säkert och korrekt sätt.
- Ta loss framsidan före bilstereons montering.

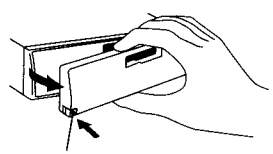
Tillaten monteringsvinkel
Monteringsvinkeln maste vara under 20 grader.

Hur framsidan ras loss/fästs

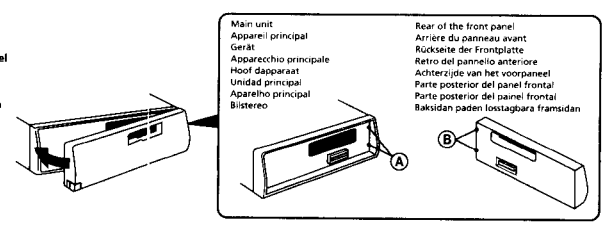
Hur framsidan tas loss
Tryck pa RELEASE, sa att framsidan öppnas, och dra sedan framsidan utat för att ta loss den.

Hur framsidan fästs i bilstereon
Fäst delen Ⓑ pa framsidan i delen Ⓐ pa bilstereon. Tryck framsidan mot bilstereon tills det klickar till.

To detach
Dépose du panneau avant
Zum Abnehmen
Per staccare
Verwijderen van het voorpaneel
Para extraer el panel frontal
Para retirar
Hur framsidan tas loss



To attach
Pose du panneau avant
Zum Anbringen
Per attaccare
Aanbrengen van het voorpaneel
Para instaler el panel frontal
Para colocar
Hur framsidan fästs i bilstereon



Mounting Example

Installation in the dashboard

Exemple d'installation

Encastrement dans le tableau de bord

Einbaubeispiel

Installation im Armaturenbrett

Esempio di installazione

Installazione sul cruscotto

Montage-voorbeeld

Inbouw in het dashboard

Ejemplo de montaje

Instalación en el salpicadero

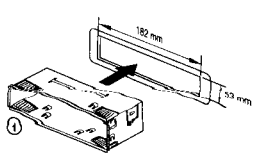
Exemplo de instalação

Instalação no tablier

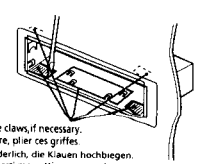
Exempel på monteringssätt

Montering i instrumentinfattning

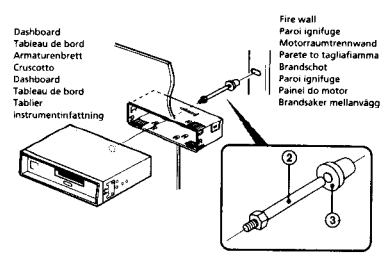
1



2


Bend these claws, if necessary.
Si nécessaire, plier ces griffes.
Falls erforderlich, die Klauen hochbiegen.
Piegare questi morsetti se necessario.
Indien nodig kunt u deze lipjes ombuigen.
Si es necesario, double estas pestañas.
Dobre as unhas se necessário.
Böj dessa tungor vid behov.

3



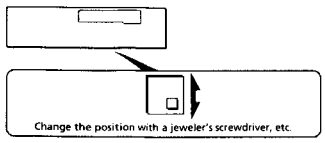
Connections

Caution

- This unit is designed for negative ground 12V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **red** power input lead only after all other leads are connected. Be sure to connect it to the positive 12V power terminal which is energized when the ignition key is turned to the accessory position.
- **Run all ground wires to a common ground point.**

POWER SELECT Switch

The illumination on the front panel is factory-set to be turned on even when the unit is not used . However, this setting may cause some car battery wear **if the unit is used in a car with no accessory position on the ignition key lock.**
To avoid battery wear in such a car, **set the POWER SELECT switch located on the bottom of the unit, to the OFF position.** The illumination is reset to stay off when the unit is not used.



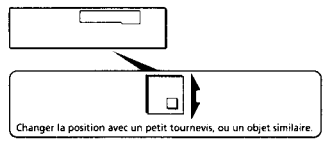
Connexions

Précautions

- Cet appareil est conçu pour fonctionner sur courant CC 12V à la masse négative.
- Avant d'effectuer les connexions, débrancher la borne de terre de la batterie de voiture pour éviter un court-circuit.
- Connecter le fil d'entrée d'alimentation **rouge** en dernier. Le raccorder à la borne d'alimentation positive de 12V qui est énergétisée quand la clé de contact est sur la position accessoire.
- **Raccorder les fils de terre à un point de masse commun.**

Interrupteur POWER SELECT

L'eclairage du panneau avant est réglé en usine pour rester allumé même quand l'appareil est arrêté. Cependant, **dans le cas des voitures dont la clé de contact n'a pas de position accessoire**, la batterie s'épuise.
Pour éviter cet inconvénient, **régler l'interrupteur POWER SELECT situé sur le socle de l'appareil sur la position OFF.**
L'éclairage s'éteint quand l'appareil est arrêté.



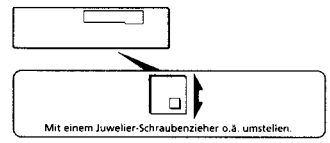
Anschluß

Vorsicht

- Dieses Gerät ist ausschließlich für ein Fahrzeug mit negativ geerdeter Autobatterie bestimmt.
- Trennen Sie vor dem Anschließen des Geräts die Erdungsklemme der Autobatterie ab, um einen Kurzschluß zu vermeiden.
- Schließen Sie die **rote** Stromversorgungsleitung als letztes, nachdem alle anderen Anschlüsse hergestellt sind, an einen positiven 12-V-Kontakt des Bordnetzes an, der in der Zubehörposition des Zündschlosses unter Strom steht.
- **Leiten Sie alle Erdungskabel an einen gemeinsamen Massepunkt.**

POWER SELECT-Schalter

Das Gerät ist werksseitig so voreingestellt, daß das Bedienungspult auch dann beleuchtet ist, wenn das Gerät nicht betrieben wird. **Besitzt das Zündschloß Ihres Fahrzeugs keine Zubehörposition**, so ist diese Beleuchtung ständig eingeschaltet und entzieht der Batterie Strom.
Stellen Sie in einem solchen Fall den POWER SELECT-Schalter an der Unterseite des Gerätes auf OFF.
Bei ausgeschaltetem Gerät ist das Bedienungspult dann nicht mehr beleuchtet.



Collegamenti

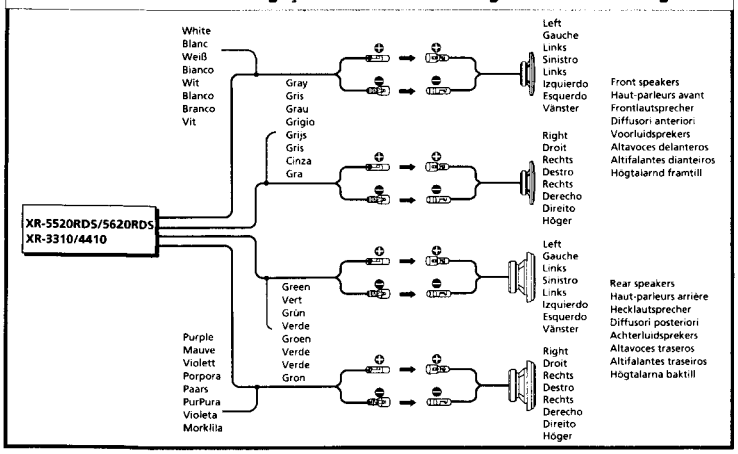
Attenzione

- Questo apparecchio è stato progettato per l'uso solo in funzionamento a 12V CC.
- Prima di eseguire i collegamenti, scollegare il terminale di massa della batteria dell'auto per evitare cortocircuiti.
- Collegare il cavo **rosso** di ingresso alimentazione solo dopo aver collegato tutti gli altri cavi e assicurarsi di collegarlo al terminale di alimentazione positivo da 12V. Questo terminale è sotto tensione quando la chiavetta di accensione si trova nella posizione accessoria.
- **Portare tutti i cavi di massa a un punto di massa comune.**

Interruttore POWER SELECT

L'illuminazione del pannello anteriore è stata predisposta in fabbrica per l'attivazione anche quando non si usa l'apparecchio. Tuttavia questa regolazione può causare lo scaricamento della batteria dell'auto **se si usa l'apparecchio in un'auto priva di posizione accessoria per la chiavetta di accensione.**
Per evitare lo scaricamento della batteria in questo tipo di auto, **regolare su OFF l'interruttore POWER SELECT situato sul fondo.** L'illuminazione viene così regolata per lo spegnimento quando non si usa l'apparecchio.

Speaker Connections/Connexion des haut-parleurs/Lautsprecheranschluß
Collegamento dei diffusori/Luidspreker-aansluiting
Conexión de los altavoces/Ligação dos altifalantes/Högtalarnas anslutningar



Notes on speaker connections
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.
- Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.
- Do not connect the speakers in parallel.
- Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the unit. Doing so may damage the active speakers. Therefore, be sure to connect passive speakers to these terminals.

Hinweise zum Lautsprecheranschluß
- Verwenden Sie Lautsprecher mit einer Impedanz zwischen 4 und 8 ohm und ausreichender Belastbarkeit. Ansonsten können die Lautsprecher beschädigt werden.
- Verbinden Sie die Lautsprecheranschlüsse nicht mit dem Wagenchassis und verbinden Sie auch nicht die Anschlüsse des rechten mit denen des linken Lautsprechers.
- Schließen Sie niemals Lautsprecher parallel an.
- An die Lautsprecheranschlüsse dürfen nur Passivlautsprecher angeschlossen werden. Schließen Sie auf keinen Fall Aktivlautsprecher an, die dies zur Beschädigung führt.

Opmerkingen betreffende het aansluiten van de luidsprekers
- Gebruik luidsprekers met een impedantie van 4 tot 8 Ohm en let op dat die het vermogen van de versterker kunnen verwerken. Als dit wordt verzuimd, kunnen de luidsprekers ernstig beschadigd raken.
- Verbind in geen geval de aansluitingen van de luidsprekers met het chassis van de auto en sluit de aansluitingen van de rechter en linker luidspreker niet op elkaar aan.
- Probeer niet de luidsprekers parallel aan te sluiten.
- Sluit geen aktieve luidsprekers (luidsprekers met ingebouwde versterkers) aan op de luidsprekeraansluitingen van het apparaat. Dit kan resulteren in beschadiging van de aktieve luidsprekers. Op deze aansluitingen mogen uitsluitend passieve luidsprekers worden aangesloten.

Remarques sur la connexion des haut-parleurs
- Utiliser des haut-parleurs avec une impédance de 4 à 8 ohms et qui peuvent supporter l'alimentation fournie sinon ils risqueraient d'être endommagés.
- Ne pas connecter les bornes du système de haut-parleur au châssis de la voiture et ne pas raccorder les bornes du haut-parleur droit aux bornes du haut-parleur gauche.
- Ne pas essayer de connecter les haut-parleurs en parallèle.
- Ne pas connecter d'enceintes acoustiques actives (avec amplificateurs intégrés) aux bornes d'enceinte de cet appareil, pour éviter d'endommager les enceintes. Veiller à raccorder des enceintes passives.

Note sul collegamento dei diffusori
- Usare diffusori di impedenza compresa tra i 4 e 8 ohm e con capacità di potenza adeguata, altrimenti i diffusori possono essere danneggiati.
- Non collegare i terminali del sistema diffusori al telaio dell' auto e non collegare i terminali del diffusore destro a quelli del diffusore sinistro.
- Non collegare i diffusori in parallelo.
- Non collegare diffusori attivi (con amplificatori incorporati) ai terminali diffusori dell'apparecchio, perché i diffusori attivi potrebbero essere danneggiati. Collegare solo diffusori passivi a questi terminali.

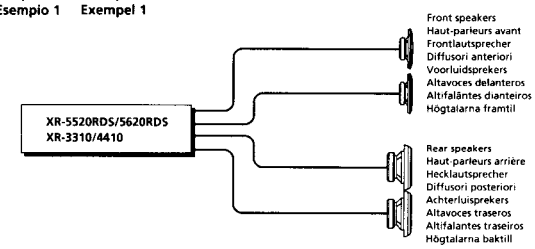
Notas sobre la conexión de los altavoces
- Emplee altavoces con una impedancia de 4 a 8 ohmios, y con la capacidad maxima de potencia adecuada. De lo contrario, los altavoces podrian dañarse.
- No conect los terminales del sistema de altavoces al chasis del automóvil, ni los del altavoz derecho a los del izquierdo.
- No intente conectar los altavoces en paralelo.
- No conecte altavoces activos (con amplificador incorporado) a los terminales de altavoces de la unidad. Si lo hiciese podria dañar dichos altavoces. Por lo tanto, cerciorese de conectar altavoces pasivos a estos terminales.

Att observera angående högtalarnas anslutningar
- Anslut endast högtalare, vilkas impedanser varierar från 4 till 8 ohm och som har tillräckligt ineffektkapacitet, för att skydda högtalarna mot skador.
- Anslut inte något av högtalarintagen på högtalarna till bilens underrede. Anslut inte heller intagen på höger högtalare till intagen på vänster högtalare.
- Anslut inte högtalarna parallellt.
- Anslut inte aktiva högtalare (med inbyggda slutsteg) till högtalaruttagen på bilstereon. Det kan skada de aktiva högtalarna. Var därför noga med att ansluta passiva högtalare till högtalaruttagen.
Använd en guldsmedsskruvmejsel e. dyl. för att ändra omkopplarnas lägen.

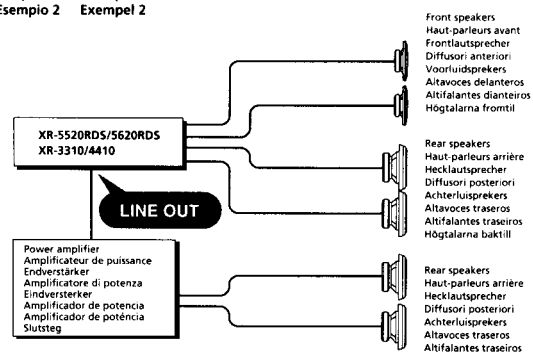
Notas quanto á ligação dos altifalantes
- Utilize altifalantes com impedância de 4 a 8 ohm, e com capacidade admissível de potencia adequada. Caso contrario, os altifalantes poderão sofrer avarias.
- Não ligue os terminais do sistema de altifalantes no chassis do automovel, e não ligue os terminais dos altifalante direito aos terminais dos altifalante esquerdo.
- Não ligue os altifalantes em paralelo.
- Não ligue nenhum sistema de altifalantes activos (com amplificadorres incorporados) aos terminais dos altifalantes do aparelho. Caso o faça, poderá avariar o sistema de altifalantes activos. Portanto, assegure-se de ligar altifalantes passivos a estes terminais.

Connection Diagram/Schéma de connexions
Anschlußdiagramm/Schema di collegamento
Aansluitschema/Diagrama de conexión
Diagrama de ligação/Kopplingsdiagram

Example 1 Voorbeeld 1
Exemple 1 Ejemplo 1
Beispiel 1 Exemplo 1
Esempio 1 Exempel 1



Example 2 Voorbeeld 2
Exemple 2 Ejemplo 2
Beispiel 2 Exemplo 2
Esempio 2 Exempel 2



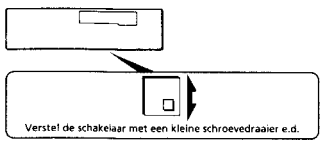
Aansluitingen

Opgelet

- Dit apparaat mag uitsluitend gebruikt worden op 12 V gelijkstroom.
- Alvorens te beginnen met het maken van aansluitingen, dient u de aardklem van de auto-accu los te maken. Dit om kortsluiting te voorkomen.
- Sluit de **rode** stroomdraad pas aan nadat alle andere aansluitingen zijn gemaakt.
  Zorg ervoor dat deze stroomdraad op de positieve 12 V accu-aansluiting wordt aangesloten. De draad komt dan onder spanning te staan, wanneer de kontaktsleutel in de accessoire-stand wordt gezet.
- **Sluit alle aarddraden op een gemeenschappelijk aardpunt aan.**

Stroomkeuzeschakelaar (POWER SELECT)

Bij het verlaten van de fabriek is de verlichting van het voorpaneel zodanig ingesteld dat deze ook brandt wanneer het apparaat niet is ingeschakeld. Dit kan echter in beperkte mate uitputting van de accu veroorzaken **wanneer het apparaat gebruikt wordt in een auto warvan het kontaktslot geen accessoire-stand heeft**. Zet de POWER SELECT schakelaar **(deze bevindt zich aan de onderkant van het apparaat) in zo'n geval op OFF**. De verlichting van het apparaat gaat nu niet meer branden wanneer het apparaat niet gebruikt wordt.



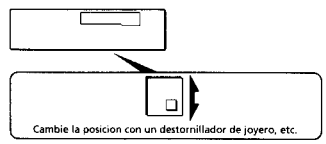
Conexiones

Precauciones

- Esta unidad ha sido diseñada para funcionar solamente con 12 V CC y negativo a masa.
- Antes de realizar las conexiones, desconect el terminal de masa de la bateria del automovil a fin de evitar cortocircuitos.
- Conexte el conductor de entrada de alimentación **rojo** solamente después de haber conectado todos los demás. Cerciórese de conectario a un terminal de alimentación de 12 V positivo que se energice al poner la liave de encendido en la posición para accesorios.
- **Conecte todos los termonales de puesta a masa a un punto común.**

Selector de alimentación (POWER SELECT)

La ilminación del panel frontal ha sido ajustada en fabrica para que esté activada incluso aunque la unidad no esté utilizandose. Sin embargo, este ajuste puede provocar cierta descarga de la bateria del automovil si la unidad se **utiliza en un automovil sin posición para accesorios en la llave de encendido**.
Para evitar el desgaste de la bateria.en tal autóvil, ponga el selector POWER SELECT cuando **en la base de la unidad en la posición OFF**. La iluminación estara desactivada la unidad no este utilizándose.



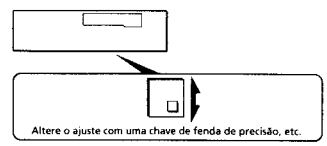
Ligações

Advertência

- Esta aparelho foi projectado para funcionar somente com 12 V CC.
- Antes de efectuar as ligações, deslique o terminal terra da bateria do automóvel para evitar curto-circuitos.
- Lique o fio **vermelho** de wntrada de alimentação somente após ter realizado as ligações de todos os outros fios. Assegure-se de que ligar esta fio no terminal positivo de 12 V que está energizado com a chave de ignição acessórios.
- **Ligue todos os fios terra num ponto comum na carroçaria.**

Interruptor POWER SELECT

A iluminação do painel frontal é ajustada na fábrica para se manter acesa mesmo quando o aparelho não estiver sendo utilizado. Entretato, este ajuste poderá causar a drenagem **da bateria do automóvel, caso o aparelho seja utilizado em automóveis sem posição acessórios na chave de ignição**. Para evitar a drenagem da bateria em tais automóveis, ajuste o interruptor POWER SELECT, **localizado na base do aparelho, em OFF**. A iluminação é então ajustada para ficar desligada enquato o aparelho não estiver em funcionamento.



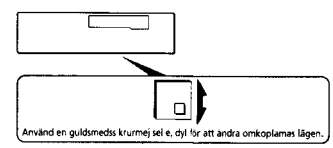
Anslutningarna

Att observera

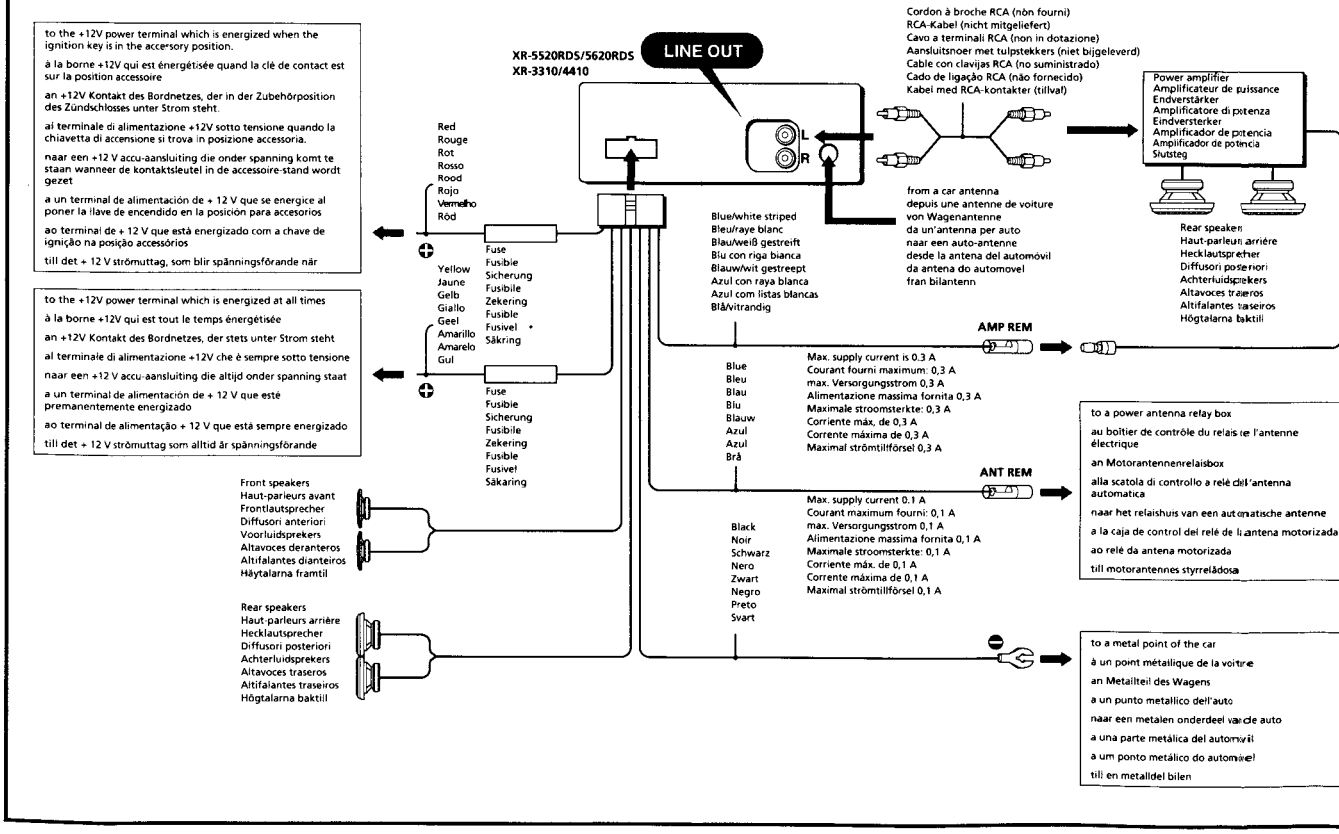
- Denna bistereo är endast avsedd för ansutning till ett 12 V bilbatteri.
- Allra första steget före anslutningama : koppla ur kabein fran bilbattenets jordpol för att förebygga kortslutningar.
- Anslut den **röda** ingaende strömkabein allra sist efter anslutning av samtliga andra kablar. Anslut denna struomkabel till det positiva 12 volts strömuttag som blir spänningsförande när tändlaset vrids till läget ACC för tillbehörens paslag.
- **Dra samtliga jordledningar till en och samma jordningspunkt.**

Omkopplaren POWER SELECT

Belysningen i teckenfönstret ställdes in före bilstereons leverans från fabriken så att belysningen lyser, också når bilstereon inte används. Detta kan emellertid bli orsak till **bilbatteriets urladdning i en bil vars tändlås inte har läget ACC för tillbehörens påslag**.
Skjut omkopplaren POWER SELECT på bilstereons **undersida till frånslaget läge OFF för att undvika att batteriet laddas ur**. Nu lyser inte belysningen i teckenfönstret når bilstereon inte används.



Connections of Example 2 / Connexions de l'exemple 2 / Anschlußbeispiel 2 / Collegamenti per l'esempio 2 / Aansluitingen van voorbeeld 2 / Conexiones del ejemplo 2 / Ligações do exemplo 2 / Kplingsdiagram enligt exempel 2



Notes on the control leads
- The power antenna control lead (blue) supplies 12V DC when you turn on the tuner or when you activate the ATA (Automatic Tuner Activation) function, AF* (Alternative Frequency) function or TA* (Traffic Announcement) function.
- A power antenna without relay box cannot be used with this unit.

* XR-5520RDS/5620RDS only

Remarques sur les fils de contrôle
- Le fil de contrôle de l'antenne électrique (bleu) fourni du courant continu de 12V quand le tuner est mis sous tension ou quand la fonction ATA (Automatic Tuner Activation) est activée, fonction AF* (Alternative Frequency) ou fonction TA* (Traffic Announcement).
- Une antenne électrique sans boîtier de relais ne peut pas être utilisé avec cet appareil.

* XR-5520RDS/5620RDS uinquement

Hinweise zu den Steuerleitungen
- Die Motorantennen-Steuerleitung (blau) gibt beim Einschalten des Tuners und beim Aktivieren der ATA-Funktion (Automatic Tuner Activation), AF*-Funktion (Alternative Frequency) oder TA*-Funktion (Traffic Announcement) 12V Gleichspannung ab.
- Eine Motorantenne ohne Relaisbox kann nicht angeschlossen werden.

* nur XR-5520RDS/5620RDS

Note sui cavi di collegamento
- Il cavo di controllo dell'antenna automatica (blu) fornisce 12V CC quando si accende il sintonizzatore o quando si attiva la funzione ATA (Automatic Tuner Activation), funzione AF* (Alternative frequency) o funzione TA* (Traffic Announcement).
- Non è possibile usare un'antenna automatica senza la scatola a relè con questo apparecchio.

* Solo XR-5520RDS/5620RDS

Opmerkingen betreffende de bedieningsaansluitingen
- Het aansluitsnoer voor de automatische antenne (blauw) levert +12 V gelijkstroom als de tuner wordt ingeschakeld of als de funktie ATA (Automatic Tuner Activations), funktie AF* (Alternative frekwenties) of funktie TA* (Traffic Announcement).
- Met dit apparaat is het niet mogelijk een automatische antenne zonder relaishuis te gebruiken.

* alleen voor de XR-5520RDS/5620RDS

Notas sobre conductores de control
- El conductor de conteol de la antena motorizada (azul) suministrará + 12 V CC cuando conecte la alimentación del sintonizador o cuando active la función de activación automática del sintonizador (ATA), frecuencia alternativa (AF*) o anouncios de tráfico (TA*).
- con esta unidad no podrá emplearse una antena motorizada desprovista de caja de relé.

* XR-5520RDS/5620RDS solamente

Notas sobre os fios de controlo
- O fio controlo da antena motorizada (azul) fronece + 12 V CC quando da ligação do sintonizador ou da activação da função ATA (Activação autom´ática do sintonizador), AF* (Frequência Alternative) ou TA* (Bolentis de Tráfego).
- Uma antena motorizada sem um relé não pode ser utilizada com este aparelho.

* Somente XR-5520RDS/5620RDS

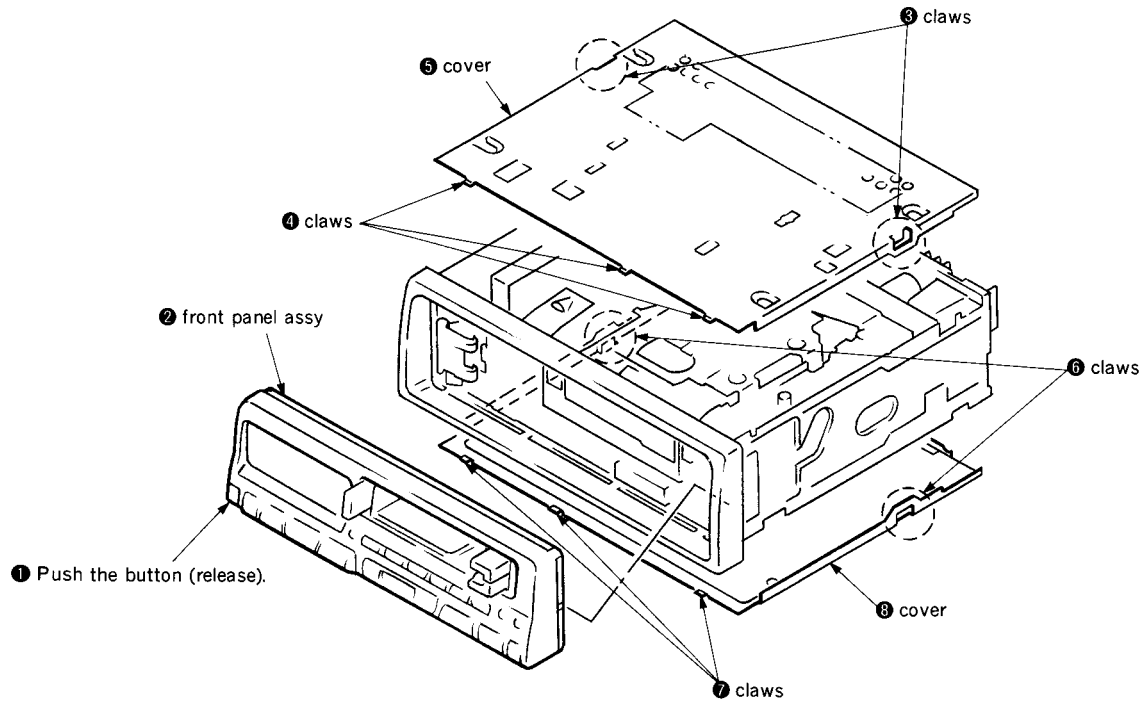
Att observera angaende de olikastyrkablarna
- Motorantennes styrkabel ANT REM (blå) leder 12 vols likström när bilradion slås på eller när radiomottagningsautomatiken ATI automatiskt slår på bilfunction, alternativa frekvenser (AF*) eller trafikmeddelanden (TA*).
- En motorantenn utan styreladosa kan inte anslutas till denna bilstereo.

* Gäller XR-5520RDS/5620RDS

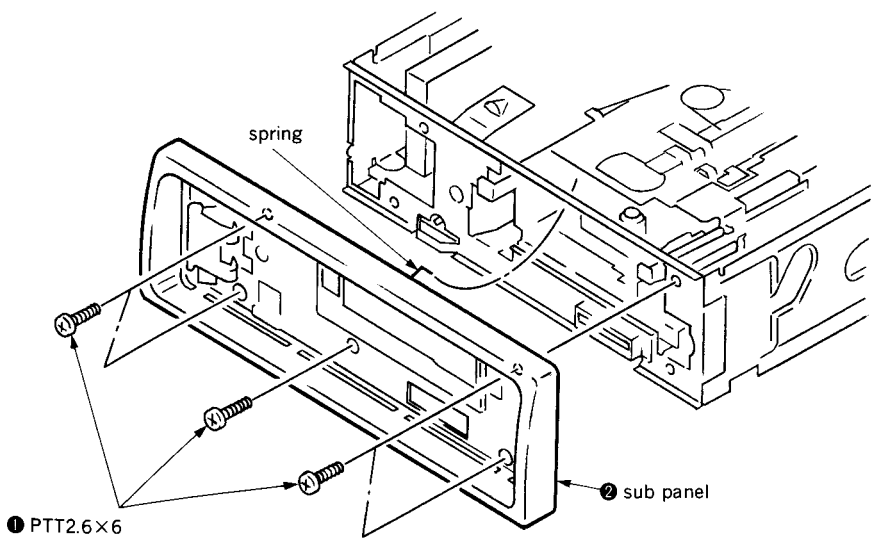
SECTION 2
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

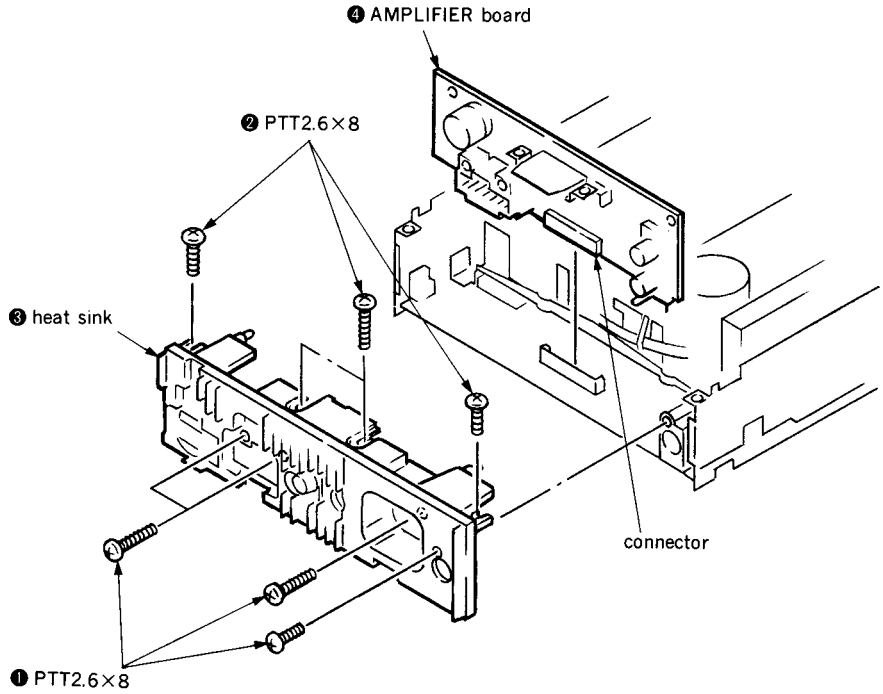
2-1. FRONT PANEL ASSY, COVER



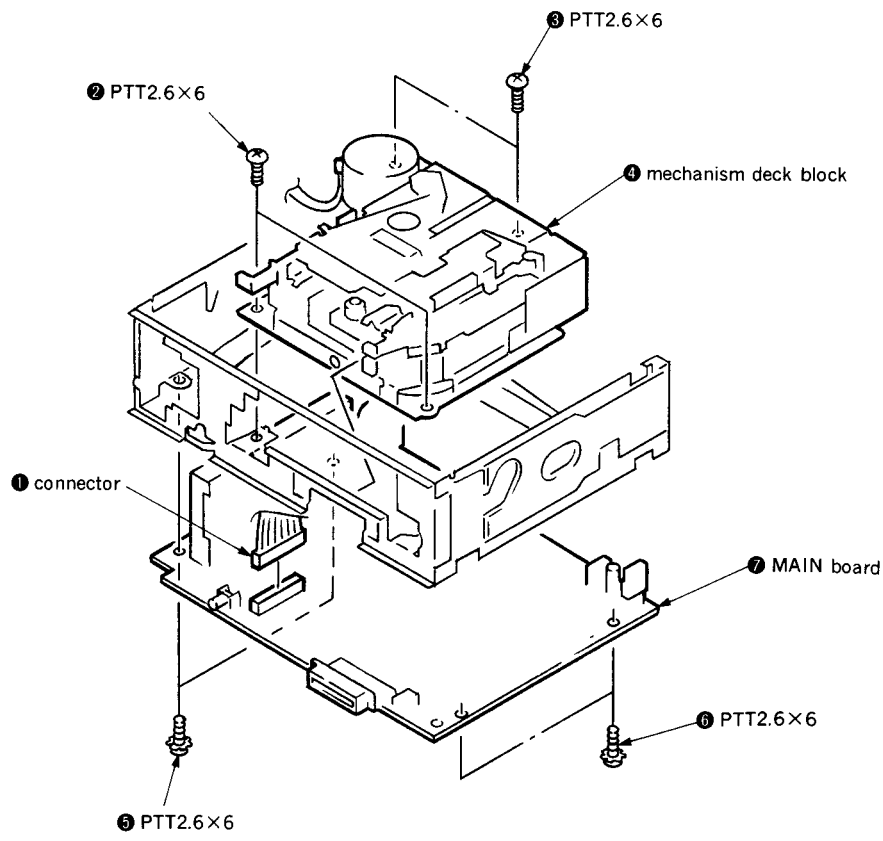
2-2. SUB PANEL



2-3. AMPLIFIER BOARD



2-4. MECHANISM DECK BLOCK, MAIN BOARD



SECTION 3
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Wipe the following components with an absorbent cotton cloth moistened with alcohol before adjustment:
   PB head — Pinch roller
   Idler — Rubber belt
   Capstan
2. Demagnetize the PB head using a head demagnetizer.
3. Be careful not to use a magnetized screwdriver.
4. After the adjustment is completed, lock the adjustment parts using screws.
5. Unless otherwise specified, make adjustments at the specified voltage (14.4V).

Torque Measurement

Mode	Torque Meter	Meter Reading
FWD	CQ-102C	25−55g•cm (0.35−0.76 oz•inch)
FWD Back Tension		1.5−4.0g•cm (0.02−0.05 oz•inch)
REV	CQ-102RC	25−55g•cm (0.35−0.76 oz•inch)
REV Back Tension		1.5−4.0g•cm (0.02−0.05 oz•inch)
FF, REW	CQ-201B	more than 50g•cm (more than 0.70oz•inch)

SECTION 4
ELECTRICAL ADJUSTMENTS

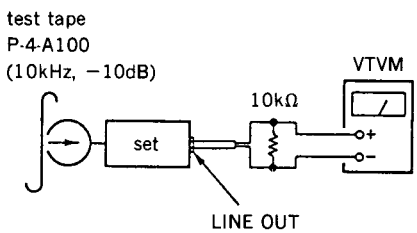
See the adjustment location from on page 23 for the adjustment.

DECK SECTION **0dB=0.775V**

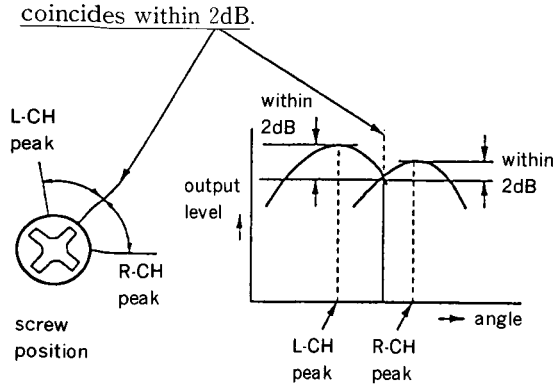
PB Head Azimuth Adjustment

Procedure:

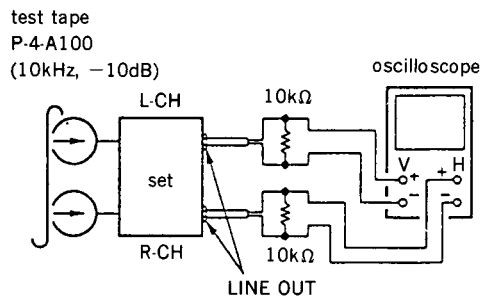
1. Put the set into the FWD PB mode.

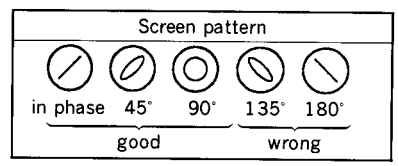


2. Turn the screw and check the output peak value. Adjust the screw so that the peak value in channels L and R coincides within 2dB.



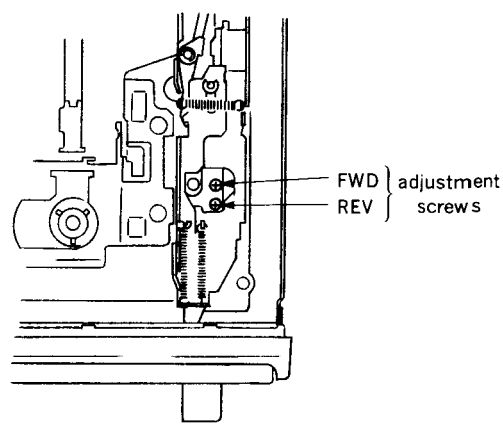
3. Check the phase in the PB mode.





4. Repeat the above adjustment for the REV PB mode.

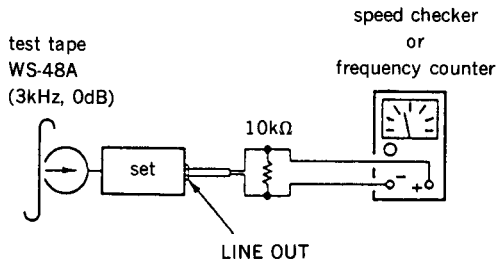
Adjustment Location: PB head



Capstan Motor Tape Speed Adjustment

Procedure :

1. Put the set into the FWD PB mode.



Specification : Constant speed

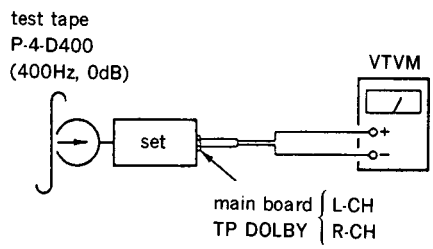
Speed checker	Frequency counter
−2.0 to +3.0%	2,940 to 3,090Hz

Adjustment Location : capstan motor volume

DOLBY Level Adjustment (XR-5620RDS only)

Setting :

(Dolby NR) button : OFF
SEL (volume) button : Maximum
SEL (balance) button : Center
SEL (bass) button : Center
SEL (treble) button : Center



Procedure :

1. Put the set into the FWD PB mode.
2. Adjust RV101 (L-CH) and RV201 (R-CH) so that VTVM reading is −6±1 dB (0.35 to 0.44V).

Adjustment Location : main board

TUNER SECTION | 0dB=1μV

Cautions during repair
When the front end is defective, replace it by a new one because its internal block is difficult to repair.

TEST MODE

This set have the test mode function. In the test mode, FM Auto Scan/Stop Level and MW Auto Scan/Stop Level adjustments can be performed easier than it in ordinaly procedure.

<Set the Test Mode>

1. Set the "OFF" mode. (Push the [OFF] button.)
2. Push the preset [4] button.
3. Push the preset [5] button.
4. Press the preset [1] button for two seconds.
5. Then the display indicates and LEDs are all lighting, the test mode is set.

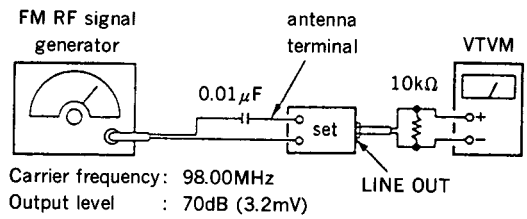
<Rerease the Test mode>

1. Push the [OFF] button.

FM Stereo Separation Adjustment

Setting :

TUNER button : FM



Carrier frequency : 98.00MHz
Output level : 70dB (3.2mV)
Mode : stereo
Modulation : main : 1kHz, 33.5kHz deviation (45%)
sub : 1kHz, 33.5kHz deviation (45%)
pilot : 1kHz, 7.5kHz deviation (10%)

Procedure :

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV4 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV4 for minimum reading.

L-CH Stereo separation : Ⓐ−Ⓑ
R-CH Stereo separation : Ⓒ−Ⓓ
The separations of both channels should be equal.

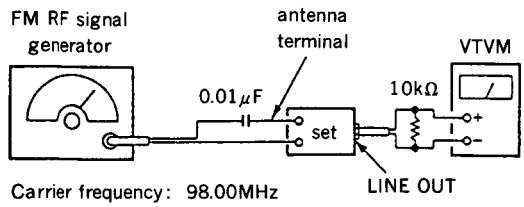
Specification : Separation more than 30dB

Adjustment Location : main board (TU1)

FM Noise Focus Adjustment

Setting :

TUNER button : FM



Carrier frequency : 98.00MHz
Output level : 60dB (1mV)
Mode : mono
Modulation : 1kHz, 75kHz deviation

Procedure :

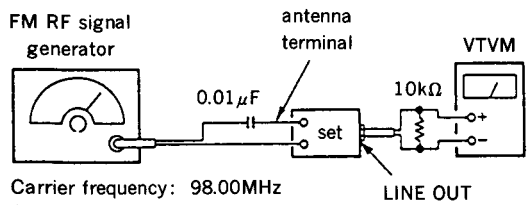
1. Tune the 98.00MHz.
2. The then output level is supposing that (A) dB.
3. Adjust with the volume RV5 on TU1 so that the output level is (A)−30dB then signal generator input set to −20dB.

Adjustment Location : main board (TU1)

FM Slider Adjustment

Setting :

TUNER button : FM



Carrier frequency : 98.00MHz
Output level : 60dB (1mV)
Mode : mono
Modulation : 10kHz, 75kHz deviation

Procedure :

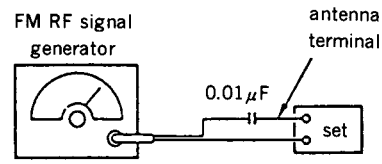
1. Tune the 98.00MHz.
2. The then output level is supposing that (B) dB.
3. Adjust with the volume RV2 on TU1 so that the output level is (B)−5dB then signal generator input set to 20dB.

Adjustment Location : main board (TU1)

FM Auto Scan/Stop Level Adjustment

Setting :

TUNER button : FM

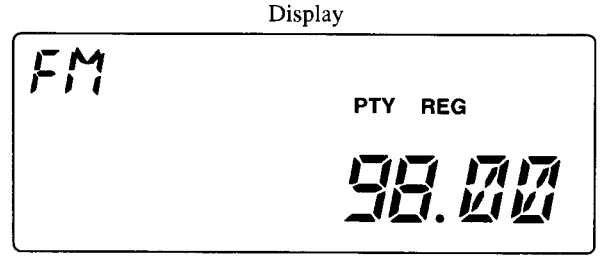


Carrier frequency : 98.00MHz
Output level : 22dB (12.6μV)
Mode : mono
Modulation : 1kHz, 30% deviation

Procedure :

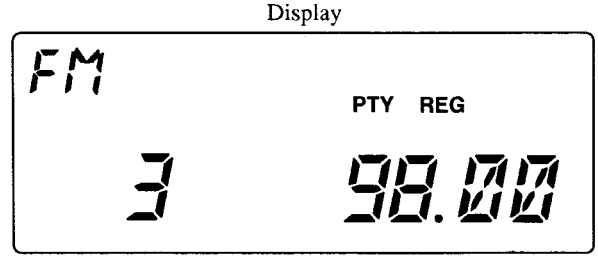
1. Set to the test mode.
2. Push the [TUNER] button and set to FM.

Display



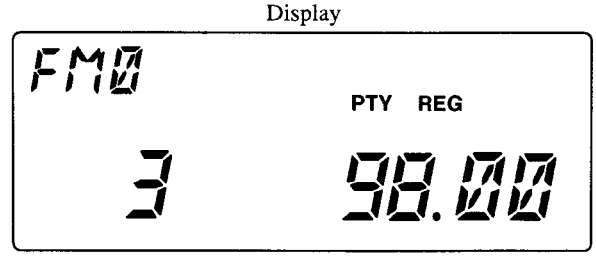
3. Push the preset [3] button.

Display



4. Adjust with the volume RV3 on TU1 so that the "FM" indication turns to "FM0" indication on the display window.
   But, in case of already indicated "FM0", turn the RV3 so that put out light "0" indication and adjustment.

Display

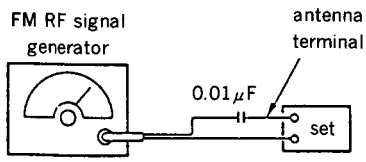


Adjustment Location : main board (TU1)

FM Signal Meter Adjustment

Setting :

TUNER button : FM

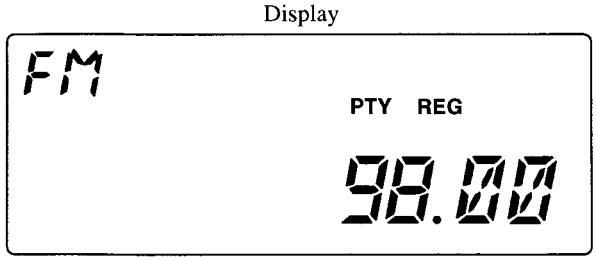


Carrier frequency : 98.00MHz
Output level : 35dB (56.2μV)
Mode : mono
Modulation : no modulation

Procedure :

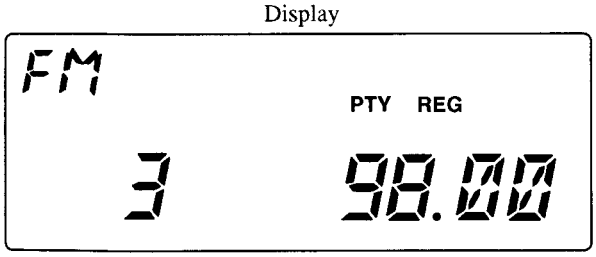
1. Set to the test mode. (See page 20.)
2. Push the [TUNER] button and set to FM.

Display



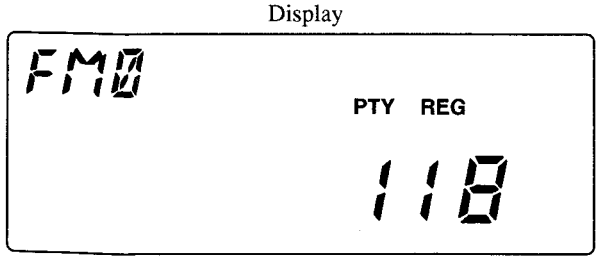
3. Push the preset [3] button.

Display



4. Push the [M. SCAN BTM] button.
5. Adjust RV1 so that the display indication is "118".

Display



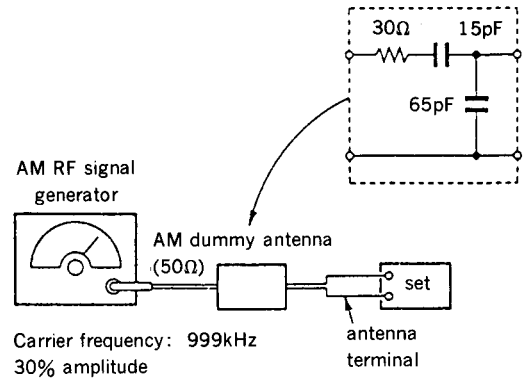
Specification : Display indication : 116 to 120

Adjustment Location : main board

MW Auto Scan/Stop Level Adjustment

Setting :

TUNER button : MW

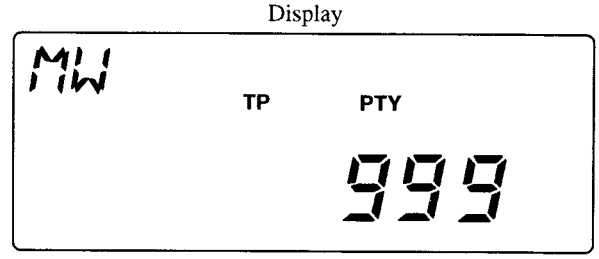


Carrier frequency : 999kHz
30% amplitude modulation by 1kHz signal
Output level : 33dB (44.7μV)

Procedure :

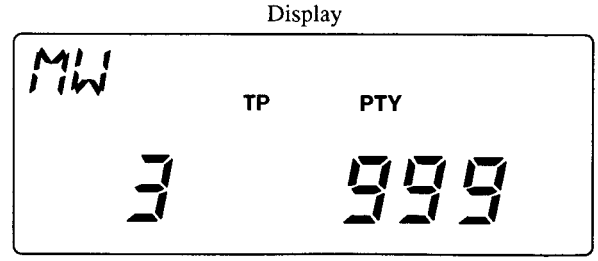
1. Set to the test mode. (See page 20.)
2. Push the [TUNER] button and set to MW.

Display



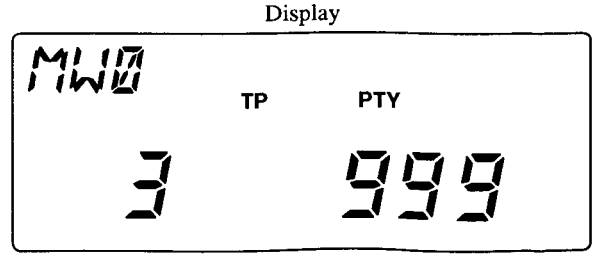
3. Push the preset [3] button.

Display



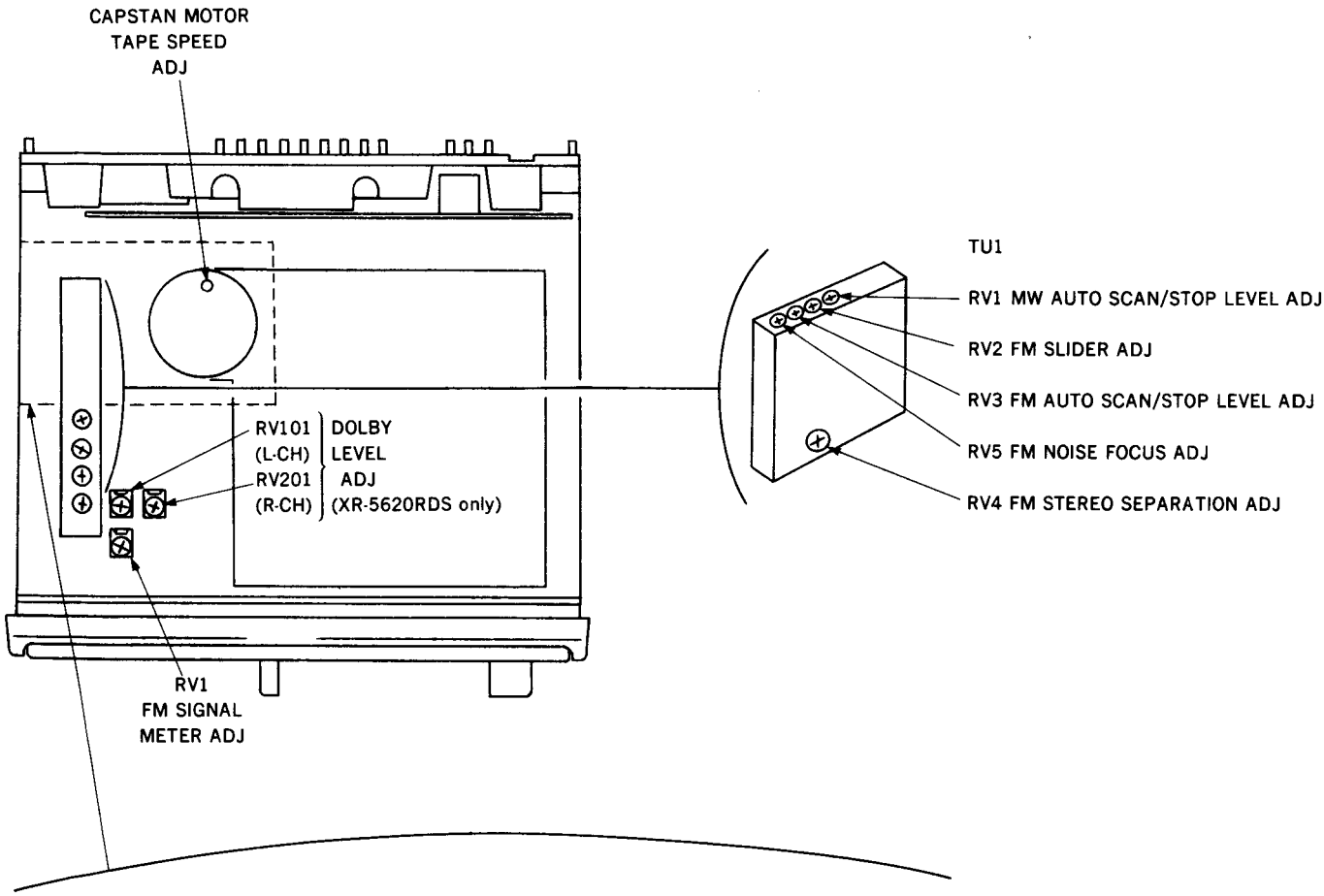
4. Adjust with the volume RV1 on TU1 so that the "MW" indication turns to "MW0" indication on the display window.
   But, in case of already indicated "MW0", turn the RV1 so that put out light "0" indication and adjustment.

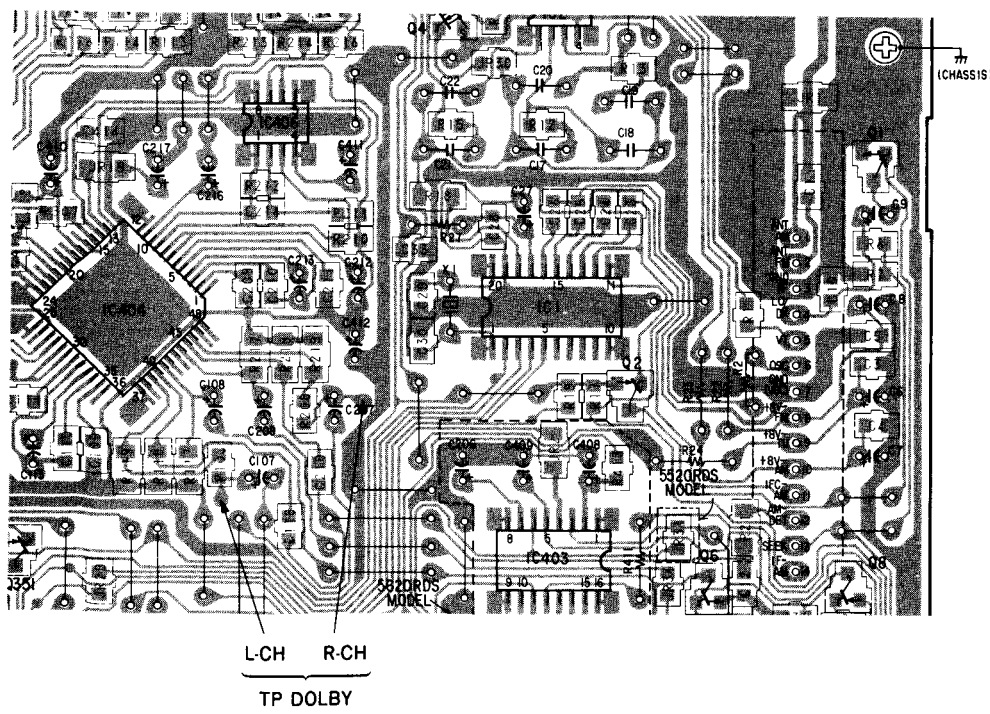
Display



Adjustment Location : main board (TU1)

Adjustment Location :





SECTION 5
DIAGRAMS

5-1. PIN DESCRIPTION

• IC301 MN1883220SZD

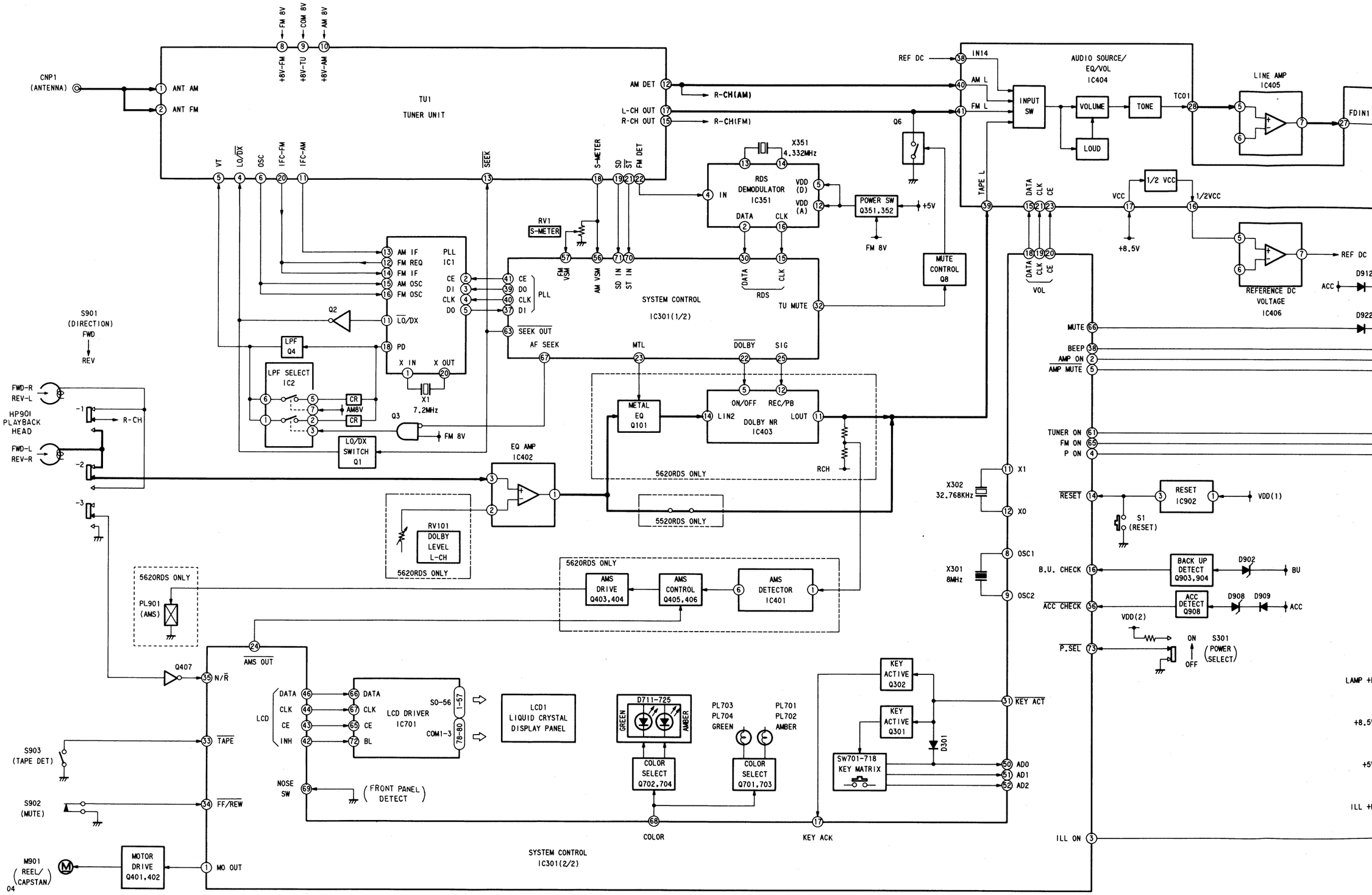
Pin No.	Pin Name	I/O	Pin Description
1	MO-OUT	O	Tape motor control signal output terminal
2	AMP-ON	O	Power amplifier control output terminal
3	ILL-ON	O	Illumination control output terminal
4	P-ON	O	Power control output terminal
5	$\overline{\text{AMP-MUTE}}$	O	Power IC mute control output terminal
6	ATA-ON	O	At ATA, tape muting output terminal.
7	VDD1	—	Power input terminal
8	OSC1	I	Connection oscillator 8MHz cera-lock
9	OSC2	O	Connection oscillator 8MHz cera-lock
10	VSS	—	GND
11	X1	I	32kHz crystal connection
12	X0	O	32kHz crystal connection
13	EX2	I	Connect to GND.
14	$\overline{\text{RESET}}$	I	Reset input terminal
15	RDS-CLK	I	Connect to RDS decoder CLK-OUT.
16	B. U-CHECK	I	BACK UP detection input terminal
17	KEY-ACK	I	AD port control input terminal
18	VOL. DATA	O	E. VOL DATA output terminal
19	VOL. CLK	O	E. VOL CLK output terminal
20	VOL. CE	O	E. VOL CE output terminal
21	TAPE. B	O	Tape power control output terminal
22	$\overline{\text{DOLBY}}$	O	At tape, DOLBY output terminal
23	MTL	O	At tape, METAL control output terminal
24	$\overline{\text{AMS-OUT}}$	O	At tape, AMS control output terminal
25	SIG	O	Tape mode output terminal
26—29	—	—	Not used.
30	RDS-DATA	I	RDS-DATA input terminal
31	$\overline{\text{KEY-ACT}}$	O	AD port control output terminal
32	TU-MUTE	O	RDS-MUTE
33	$\overline{\text{TAPE}}$	I	Tape signal input terminal
34	$\overline{\text{FF•REW}}$	I	Tape FF•REW signal input terminal
35	N/$\overline{\text{R}}$	I	Tape running direction input terminal
36	$\overline{\text{ACC-CHECK}}$	I	ACC detection input terminal
37	PLL-DI	I	PLL DATA input terminal
38	BEEP	O	BEEP sound output terminal
39	PLL-DO	O	PLL DATA output terminal
40	PLL-CLK	O	PLL CLK output terminal
41	PLL-CE	O	PLL CE output terminal
42	LCD-INH	O	LCD-INH output terminal
43	LCD-CE	O	LCD-CE output terminal
44	LCD-CLK	O	LCD-CLK output terminal
45	—	—	Not used.
46	LCD-DATA	O	LCD-DATA output terminal

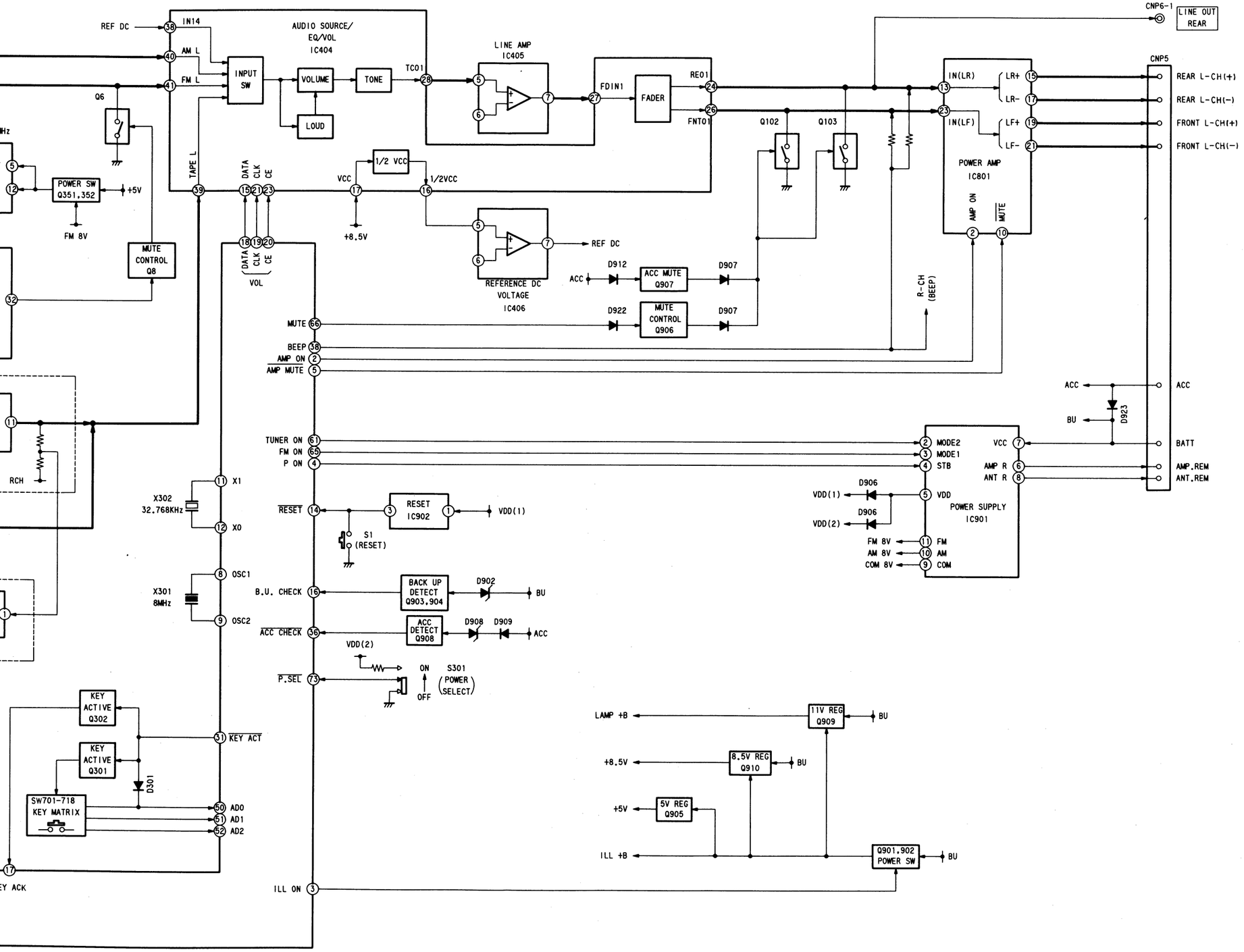
Pin No.	Pin Name	I/O	Pin Description
47	VDD2	—	Power terminal
48	AVDD	—	Power terminal of AD input port. Connect to pin ㊼.
49	VREF+	—	Reference voltage input of AD input port. (+side)
50	AD-0	I	KEY input terminal
51	AD-1	I	KEY input terminal
52	AD-2	I	KEY input terminal
53	—	—	Connect to GND.
54	MS-1	I	Port for destination select setting
55	MS-0	I	
56	AM-VSM	I	Signal meter voltage detection terminal of AM (MW•SW•LW).
57	FM-VSM	I	Signal meter voltage detection terminal of FM.
58	VREF−	—	Reference voltage input of AD input port. (−side)
59	AVSS	—	GND. Connect to pin ㊽.
60	VSS2	—	GND
61	TUNER-ON	O	At TUNER ON, "H" output.
62	—	—	Not used.
63	$\overline{\text{SEEK-OUT}}$	O	SEEK OUT output terminal (RECEIVE)
64	AM-ON	—	Not used.
65	FM-ON	O	FM-ON output terminal
66	MUTE	O	Mute signal output terminal
67	AF-SEEK	O	Output terminal for AF-SEEK.
68	COLOR	O	ILL-COLOR select output terminal
69	$\overline{\text{NOSE-SW}}$	I	Input pin for detecting mounting of front panel.
70	ST-IN	I	ST indicate to turn ON for "L".
		O	At forced monaural, output for "L".
71	SD-IN	I	STOP decide on SEEK, AUTO-MEMORY and SCAN.
72	—	—	Not used.
73	P. SEL-SW	I	Power select switching input terminal
74	CAU-SEL	I	Caution alarm ON/OFF input terminal
75	AMS-SEL	I	AMS function input terminal
76	MTL-SEL	I	METAL function input terminal
77	DOLBY-SEL	I	DOLBY function input terminal
78	ATA-SEL	I	ATA function input terminal
79	TEST	I	Test mode input terminal
80	—	—	Not used.

MS-0 / MS-1

MODESEL1	MODESEL2	Destination
L	L	FM+MW+LW (AEP)
L	H	FM+MW+SW (German)

5-2. BLOCK DIAGRAM




REF DC
IN14
AM L
FM L
AUDIO SOURCE/ EQ/VOL IC404
INPUT SW
VOLUME
TONE
LOUD
TC01
LINE AMP IC405
FDIN1
FADER
RE01
FNT01
Q6
POWER SW Q351,352
+5V
FM 8V
TAPE L
DATA
CLK
CE
VCC
1/2 VCC
1/2VCC
+8.5V
REFERENCE DC VOLTAGE IC406
REF DC
MUTE CONTROL Q8
VOL
Q102
Q103
CNP6-1
LINE OUT REAR
CNP5
IN(LR)
LR+
LR-
IN(LF)
LF+
LF-
REAR L-CH(+)
REAR L-CH(-)
FRONT L-CH(+)
FRONT L-CH(-)
POWER AMP IC801
AMP ON
MUTE
D912
ACC
ACC MUTE Q907
D907
D922
MUTE CONTROL Q906
R-CH (BEEP)
MUTE
BEEP
AMP ON
AMP MUTE
ACC
BU
D923
BATT
AMP.REM
ANT.REM
TUNER ON
FM ON
P ON
MODE2
MODE1
STB
VCC
AMP R
ANT R
D906
VDD(1)
VDD(2)
VDD
POWER SUPPLY IC901
FM 8V
AM 8V
COM 8V
FM
AM
COM
X302 32.768KHz
X1
X0
X301 8MHz
OSC1
OSC2
RESET
RESET IC902
VDD(1)
S1 (RESET)
B.U. CHECK
BACK UP DETECT Q903,904
D902
ACC CHECK
ACC DETECT Q908
D908
D909
VDD(2)
P.SEL
ON
OFF
S301 (POWER SELECT)
KEY ACTIVE Q302
KEY ACTIVE Q301
D301
KEY ACT
SW701-718 KEY MATRIX
AD0
AD1
AD2
ILL ON
LAMP +B
11V REG Q909
+8.5V
8.5V REG Q910
+5V
5V REG Q905
ILL +B
Q901,902 POWER SW

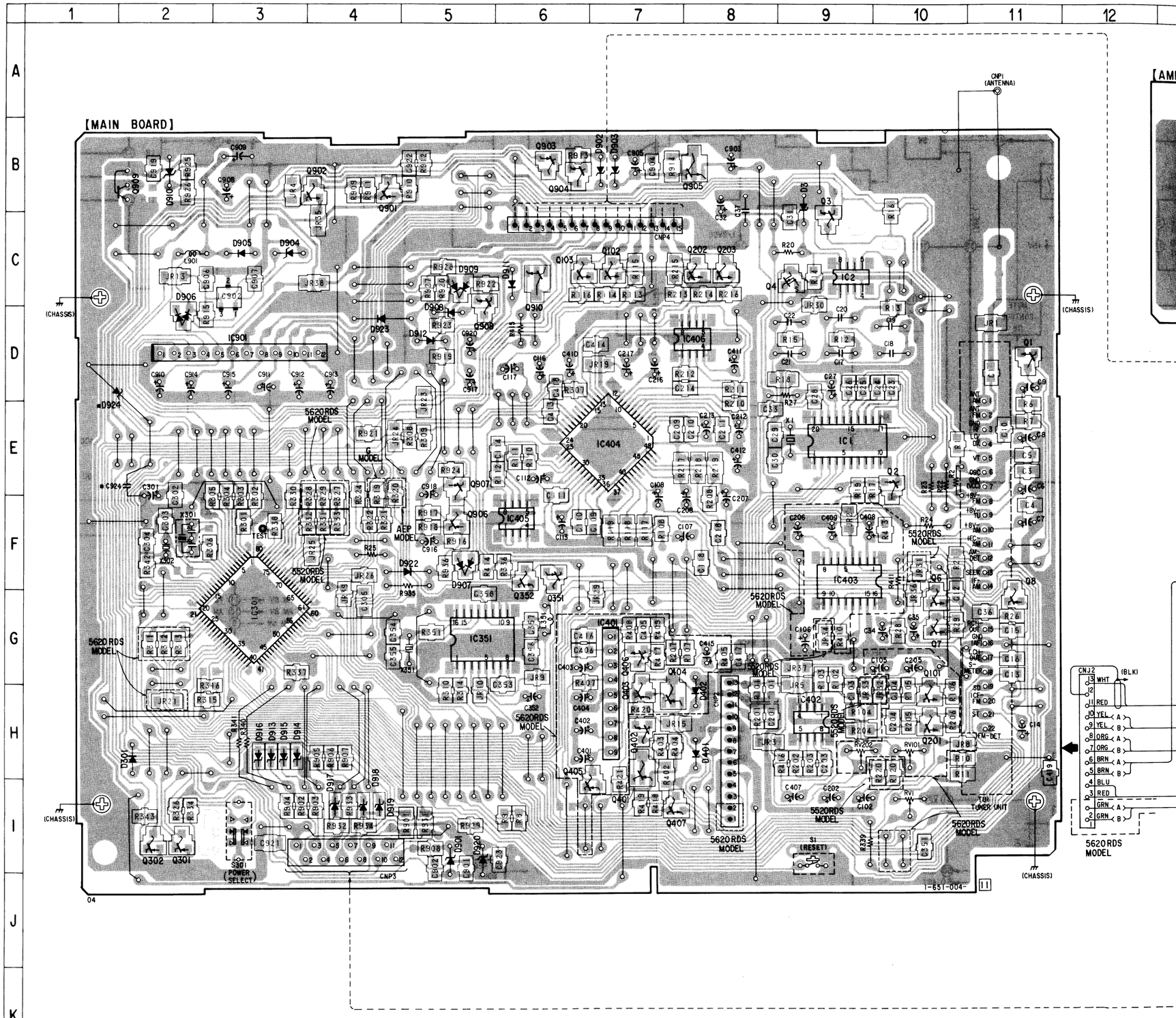
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D3	B-9	IC301	G-3
D301	H-2	IC351	G-5
D401	H-8	IC401	G-7
D402	H-8	IC402	I-9
D701	F-29	IC403	F-9
D702	F-29	IC404	F-7
D703	F-26	IC405	F-6
D704	F-26	IC406	D-8
D705	F-26	IC701	F-31
D706	B-29	IC801	B-16
D711	B-30	IC901	D-3
D712	B-31	IC902	C-3
D713	B-32		
D714	B-26	Q1	D-11
D715	B-27	Q2	E-10
D716	B-28	Q3	B-9
D717	C-26	Q4	C-9
D718	C-27	Q6	G-10
D719	C-27	Q7	G-10
D720	C-24	Q8	G-11
D721	C-24	Q101	H-10
D722	C-25	Q102	C-7
D723	B-23	Q103	C-6
D724	B-23	Q201	H-10
D725	B-24	Q202	C-8
D801	C-20	Q203	C-8
D901	I-5	Q301	I-2
D902	B-7	Q302	I-2
D903	B-7	Q351	F-6
D904	C-3	Q352	F-6
D905	C-3	Q401	H-7
D906	D-2	Q402	H-7
D907	F-5	Q403	H-7
D908	D-5	Q404	H-7
D909	C-5	Q405	H-6
D910	B-2	Q406	G-7
D911	C-6	Q407	I-7
D912	D-5	Q701	G-29
D913	H-3	Q702	B-29
D914	H-3	Q703	B-28
D915	H-3	Q704	B-28
D916	H-3	Q901	B-4
D917	H-4	Q902	B-4
D918	H-4	Q903	B-6
D919	H-4	Q904	B-6
D920	I-5	Q905	B-6
D922	F-5	Q906	F-5
D923	D-4	Q907	E-5
D924	E-1	Q908	D-5
		Q909	B-2
IC1	E-9	Q910	C-6
IC2	C-9		

Note :

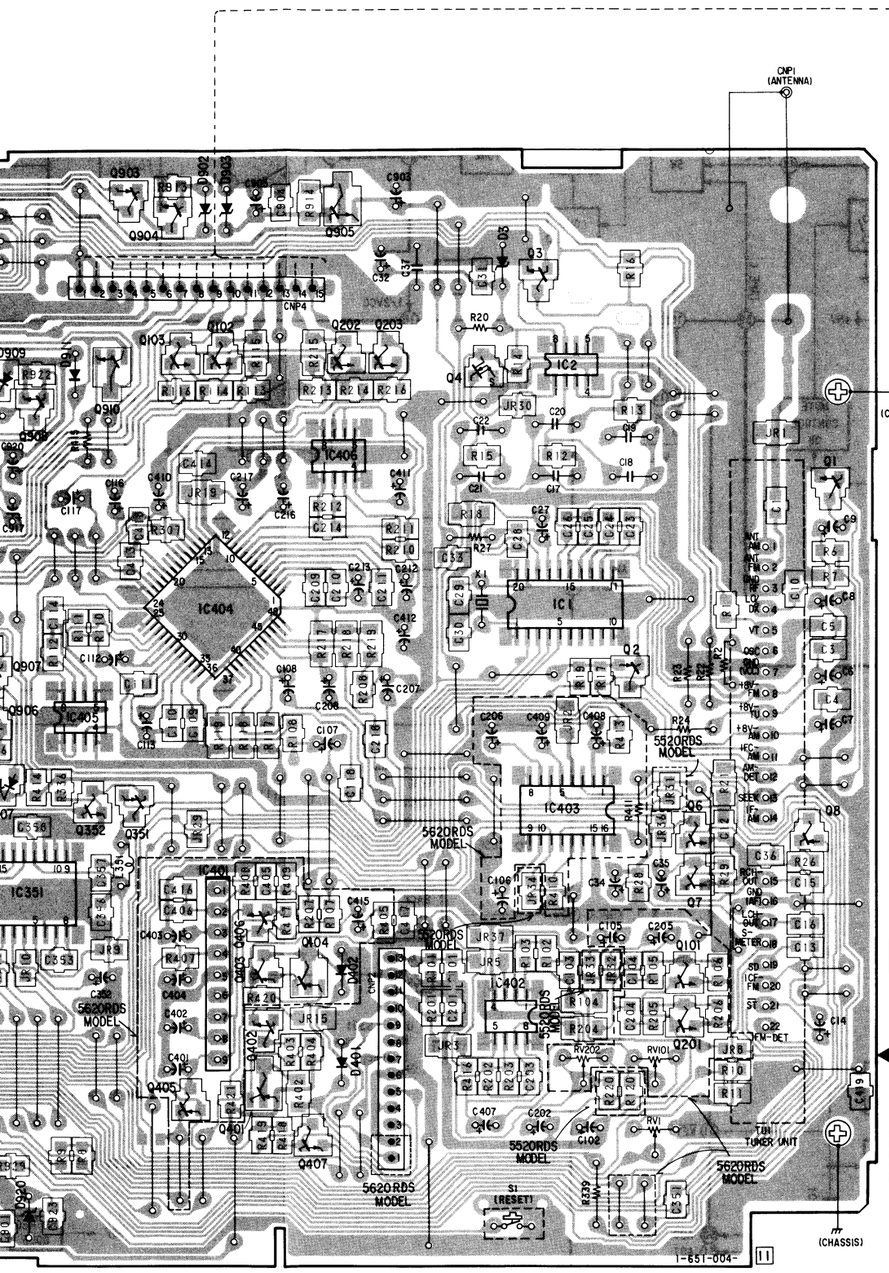
- ○— : parts extracted from the component side.
- —— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ● : Through hole.
- ▨ : Pattern on the side which is seen.
  (The other layer's patterns are not indicated.)
- Abbreviation
  G : German model

5-3. PRINTED WIRING BOARDS • Refer to page 45 for Semiconductor Lead Layouts.

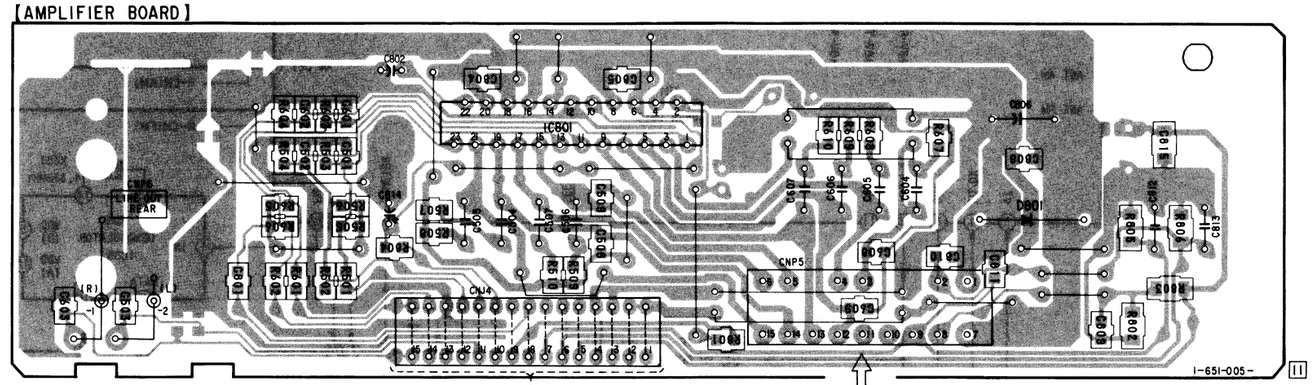


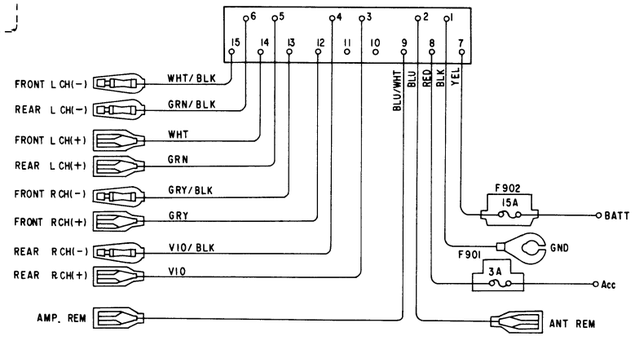
tor Lead Layouts.

6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

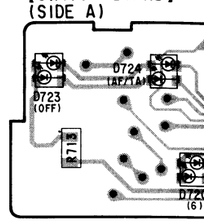


【AMPLIFIER BOARD】

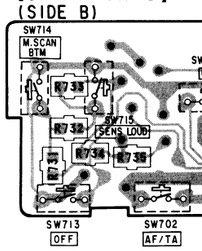


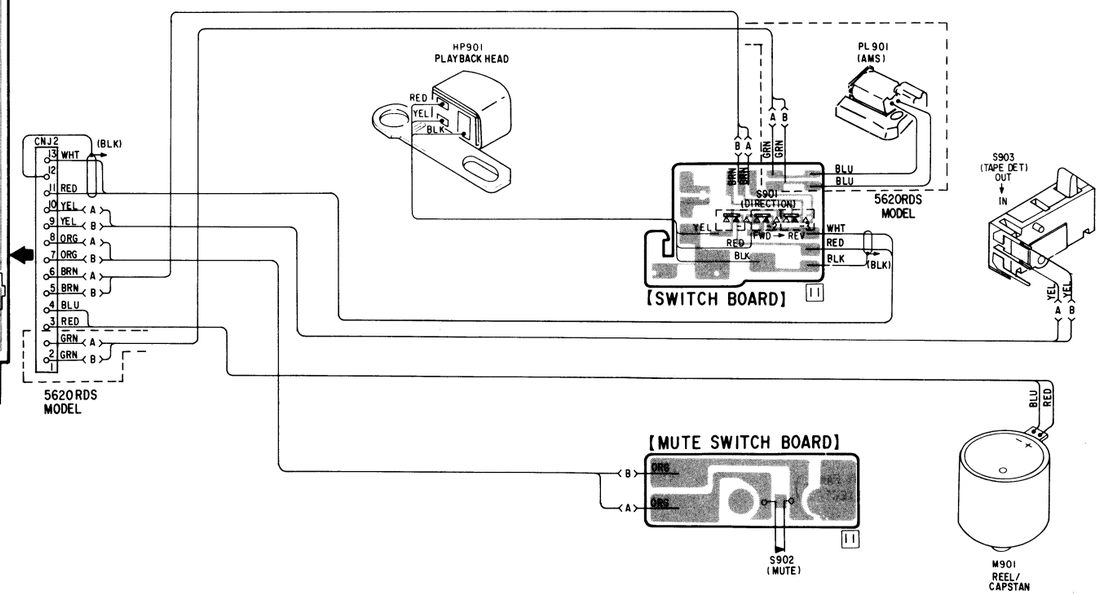


【SWITCH BOARD】 (SIDE A)

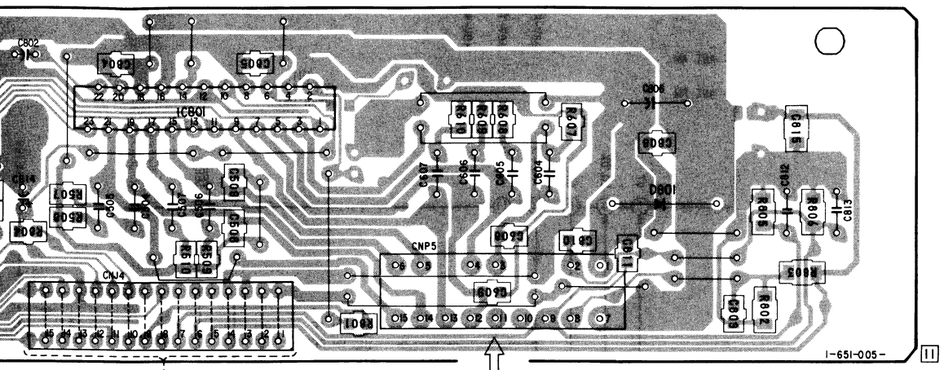


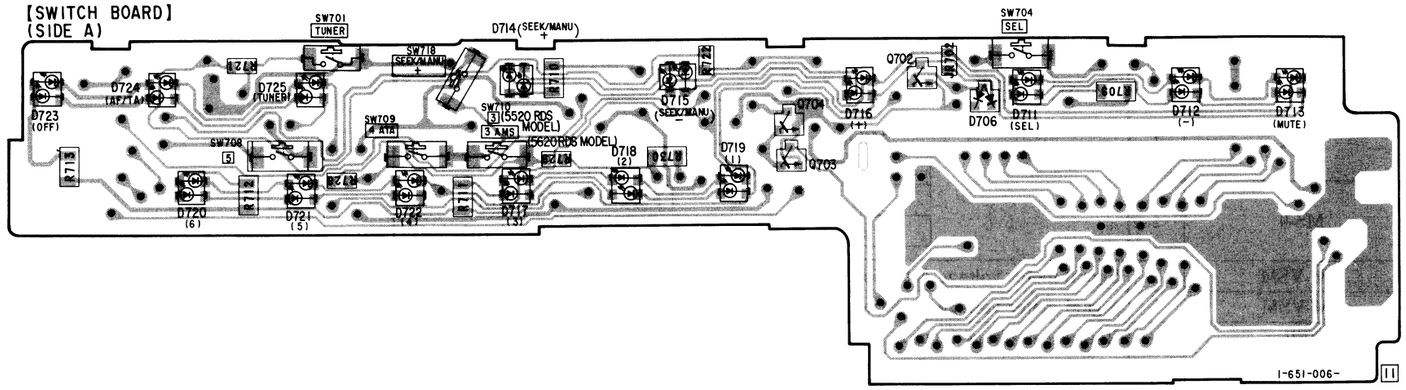
【SWITCH BOARD】 (SIDE B)

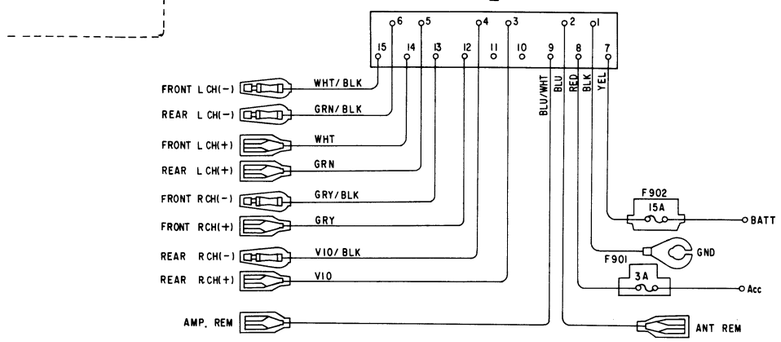


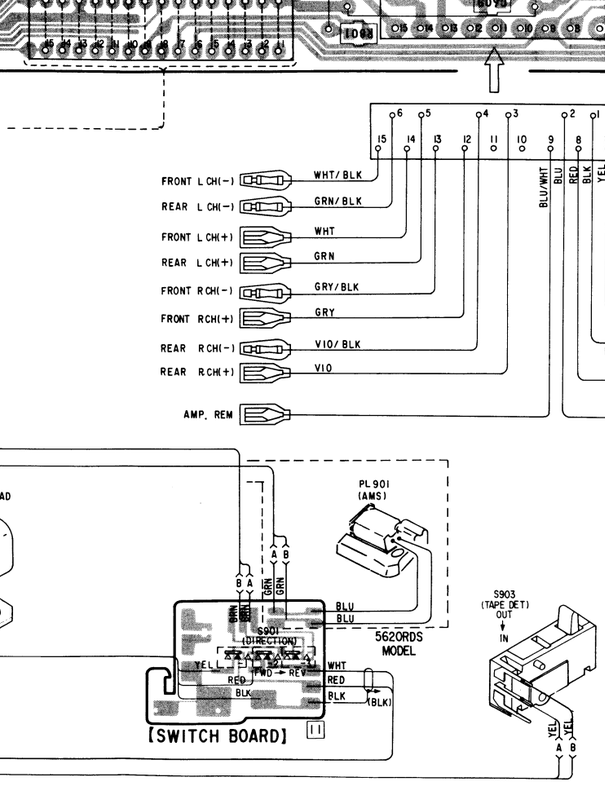


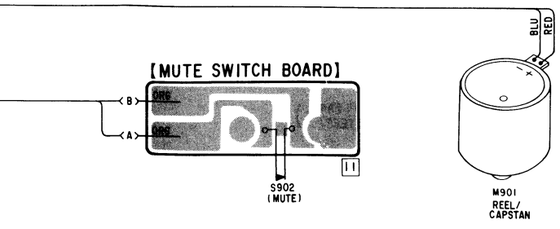
15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32

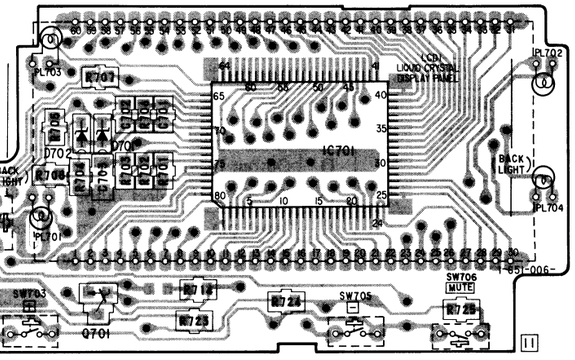




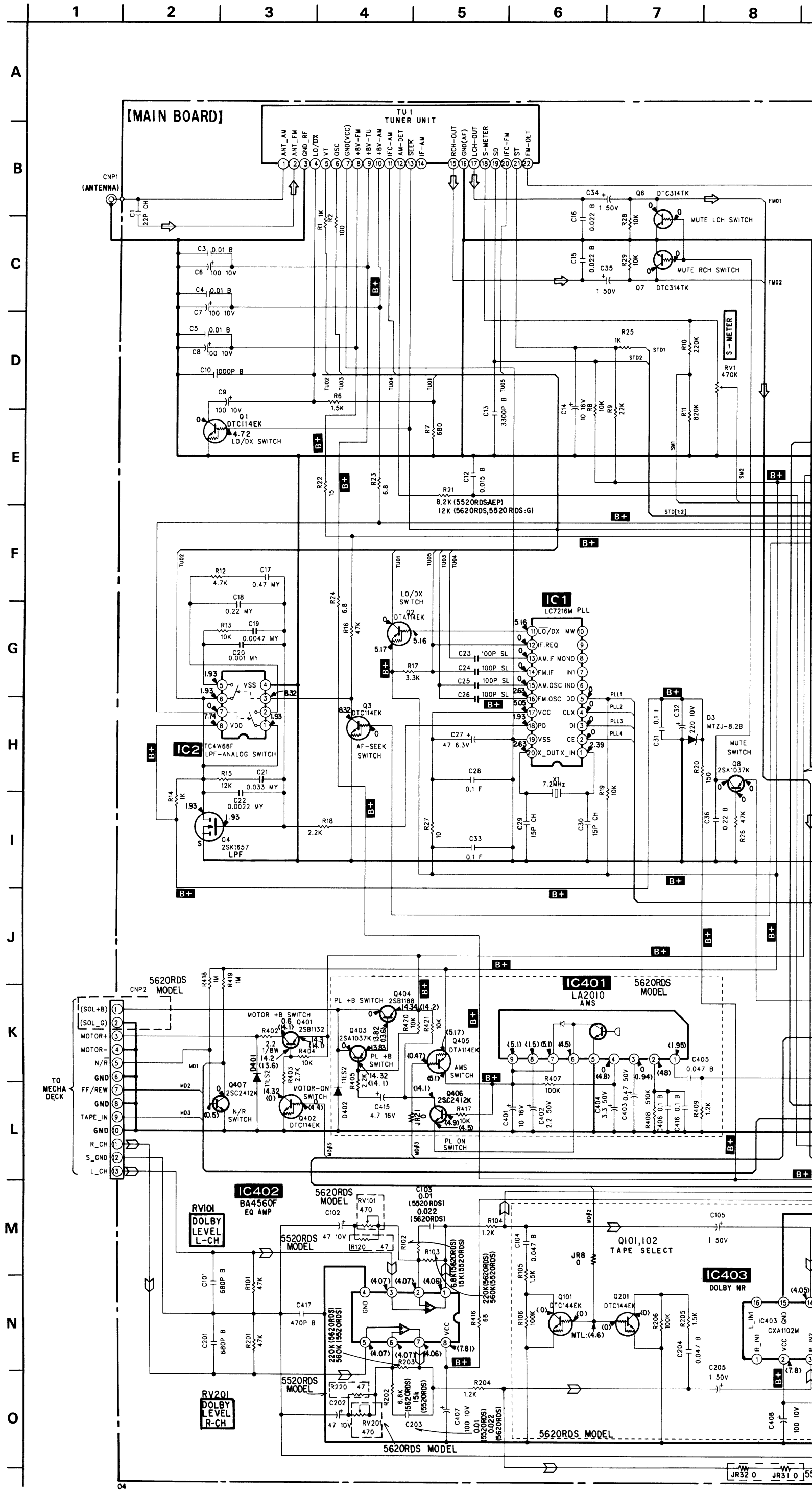


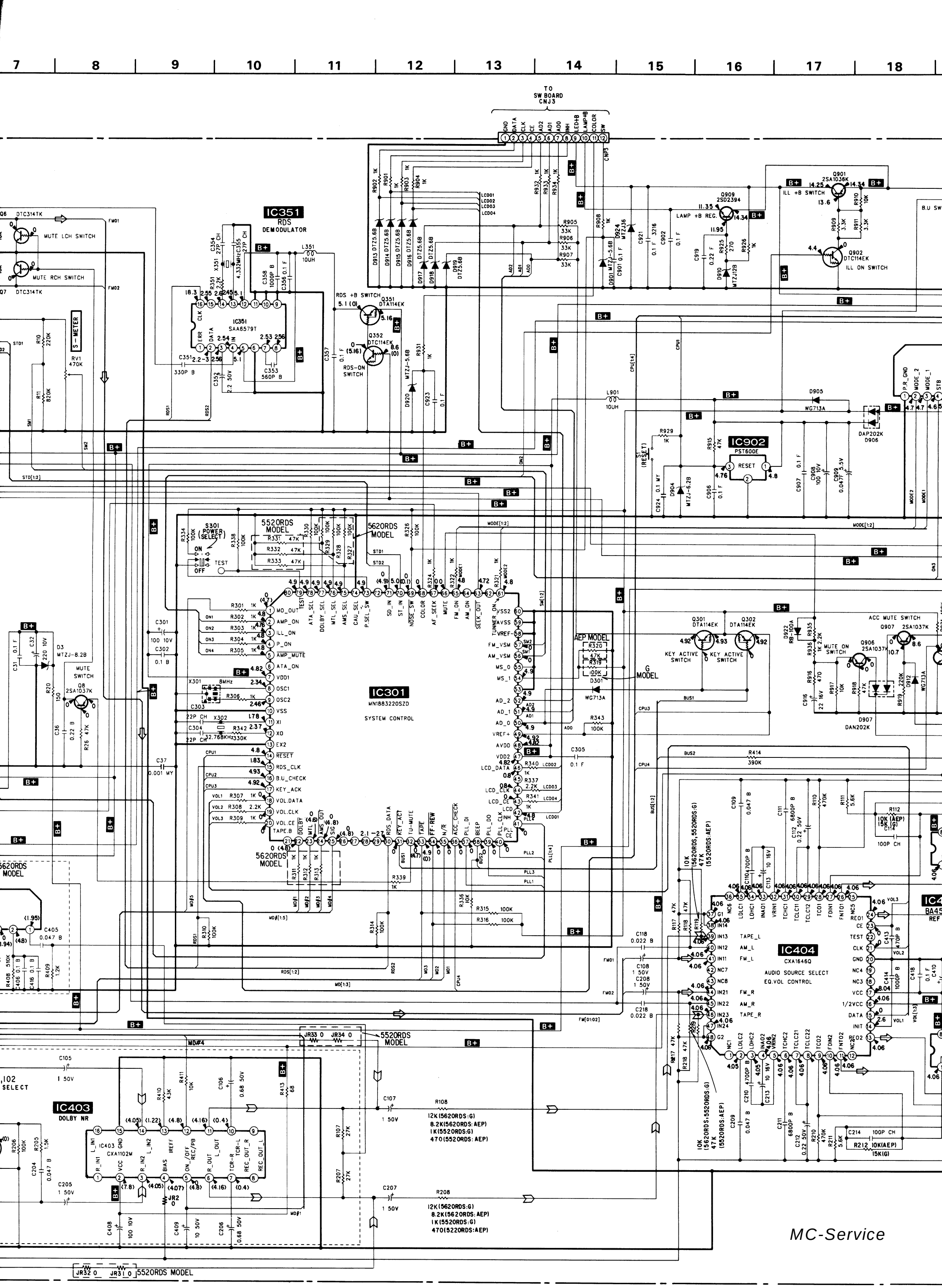




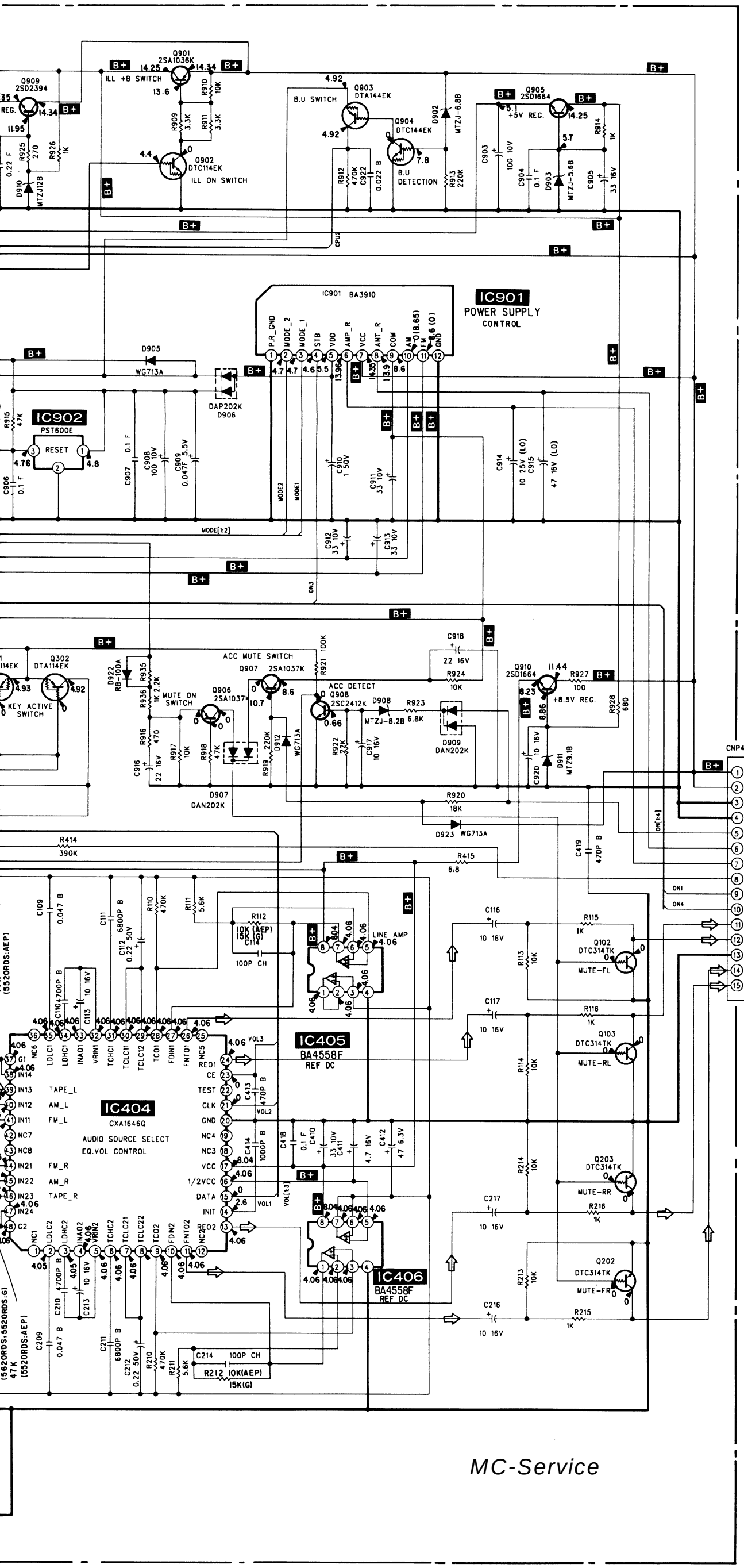


5-4. SCHEMATIC DIAGRAM—MAIN SECTION— • Refer to page 43 for IC Block Diagrams.




TO SW BOARD CNJ3
GND DATA CLK CE AD2 AD1 AD0 INH LED+B LAMP+B COLOR SW
CNP3
IC351 RDS DEMODULATOR
IC351 SAA6579T
X351 4.332MHz
L351 10UH
RDS +B SWITCH
Q351 DTA114EK
Q352 DTC114EK
RDS-ON SWITCH
IC301 MN1883220SZD SYSTEM CONTROL
Q6 DTC314TK
Q7 DTC314TK
MUTE LCH SWITCH
MUTE RCH SWITCH
S-METER
RV1 470K
Q8 2SA1037K
MUTE SWITCH
D3 MTZJ-8.2B
X301 8MHz
X302 32.768KHz
S301 POWER (SELECT)
ON
OFF
TEST
5520RDS MODEL
5620RDS MODEL
AEP MODEL
G MODEL
Q901 2SA1036K
ILL +B SWITCH
Q909 2SD2394
LAMP +B REG.
Q902 DTC114EK
ILL ON SWITCH
D924 MTZJ36
D901 MTZJ-5.6B
D905 WG713A
DAP202K D906
L901 10UH
IC902 PST600E
RESET
S1 (RESET)
Q301 DTA114EK
Q302 DTA114EK
KEY ACTIVE SWITCH
ACC MUTE SWITCH
Q907 2SA1037K
MUTE ON SWITCH
Q906 2SA1037K
D922 RB-100A
D907 DAN202K
D301 WG713A
IC404 CXA1646Q
AUDIO SOURCE SELECT
EQ.VOL CONTROL
IC403 DOLBY NR
IC403 CXA1102M
JR33 0 JR34 0 5520RDS MODEL
JR32 0 JR31 0 5520RDS MODEL
MODE[1:2]
MD#[1:5]
RDS[1:2]
MD[1:3]
FM[01:02]
SM[1:2]
STD[1:2]
BUS[1:2]
CPU[1:4]
PLL[1:4]
LCD01
LCD02
LCD03
LCD04
MODE1
MODE2
MODE_1
MODE_2
P.R_GND
STB
VOL1
VOL2
VOL3
ON1
ON2
ON3
ON4
FM01
FM02
MD#1
MD#2
MD#3
MD#4
MD#5
RDS1
RDS2
SW1
SW2
CPU1
CPU2
CPU3
CPU4
BUS1
BUS2
PLL1
PLL2
PLL3
B+

16 | 17 | 18 | 19 | 20 | 21 | 22 | 23



MC-Service

Note :

- All capacitors are in μF unless otherwise noted. pF : $\mu\mu$F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- B+ : B+ Line
- ▭ : adjustment for repair.
- Power voltage is dc 14.4V and fed with regulated dc power supply from BATT and ACC terminals on AMPLIFIER board.
- Voltage is dc with respect to ground under no-signal (detuned) conditions.
- no mark: FM
  < > : PB
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
  ⇨ : PB
- Abbreviation
  G : German model

5-5. SCHEMATIC DIAGRAM—DECK/PANEL SECTION—

【SW BOARD】

LCD1
LIQUID CRYSTAL
DISPLAY PANEL

IC701
TC9240F
LCD DRIVER

S[00:56]

R708 1.2K
R705 1.2K
B+
C703 0.47 F 3216
D701 DTZ5.1B
D702 DTZ5.6B
D703 DTZ5.6B
D704 DTZ5.6B
D705 DTZ5.6B
D706 DTZ5.6B
R701 1K
R702 1K
R703 1K
R704 47K
R707 560
C701 0.01 B
R706 100K
C702 2200P B
JR701 0 1/8W

SW
COLOR
LAMP+B
LED+B
INH
AD0
AD1
AD2

MECHA DECK

5620RDS MODEL

M901 (REEL/CAPSTAN)
MOTOR+
MOTOR-
N/R
N/R

【MUTE SWITCH BOARD】
S902 (MUTE)
FF/REW
S903 (TAPE DET OUT IN)
TAPE IN

HP901 PLAYBACK HEAD
FWD-R REV-L
FWD-L REV-R
YEL
RED
BLK
S901 (DIRECTION)
REV
FWD

5620RDS MODEL
PL901 (AMS)

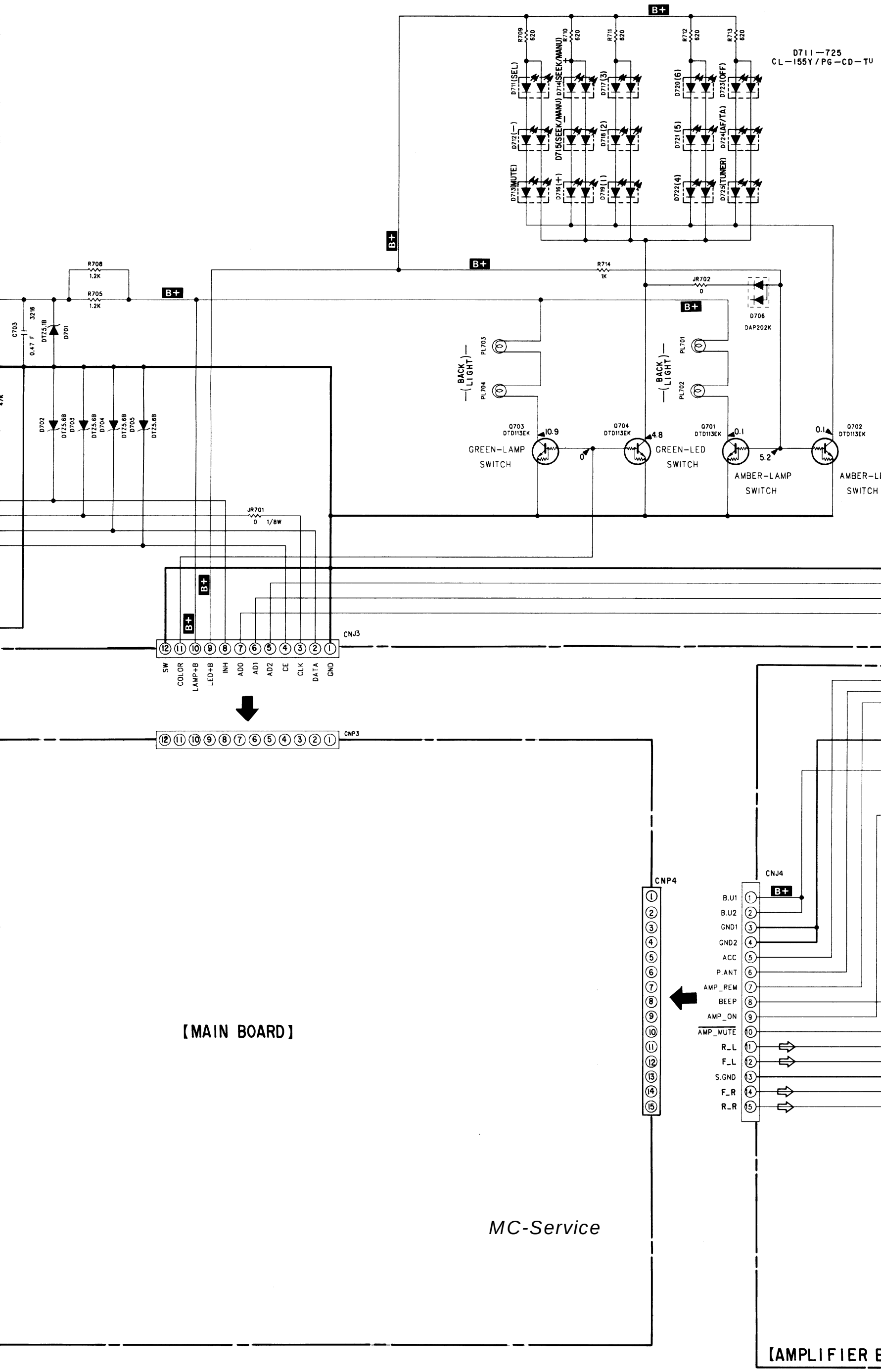
【SWITCH BOARD】

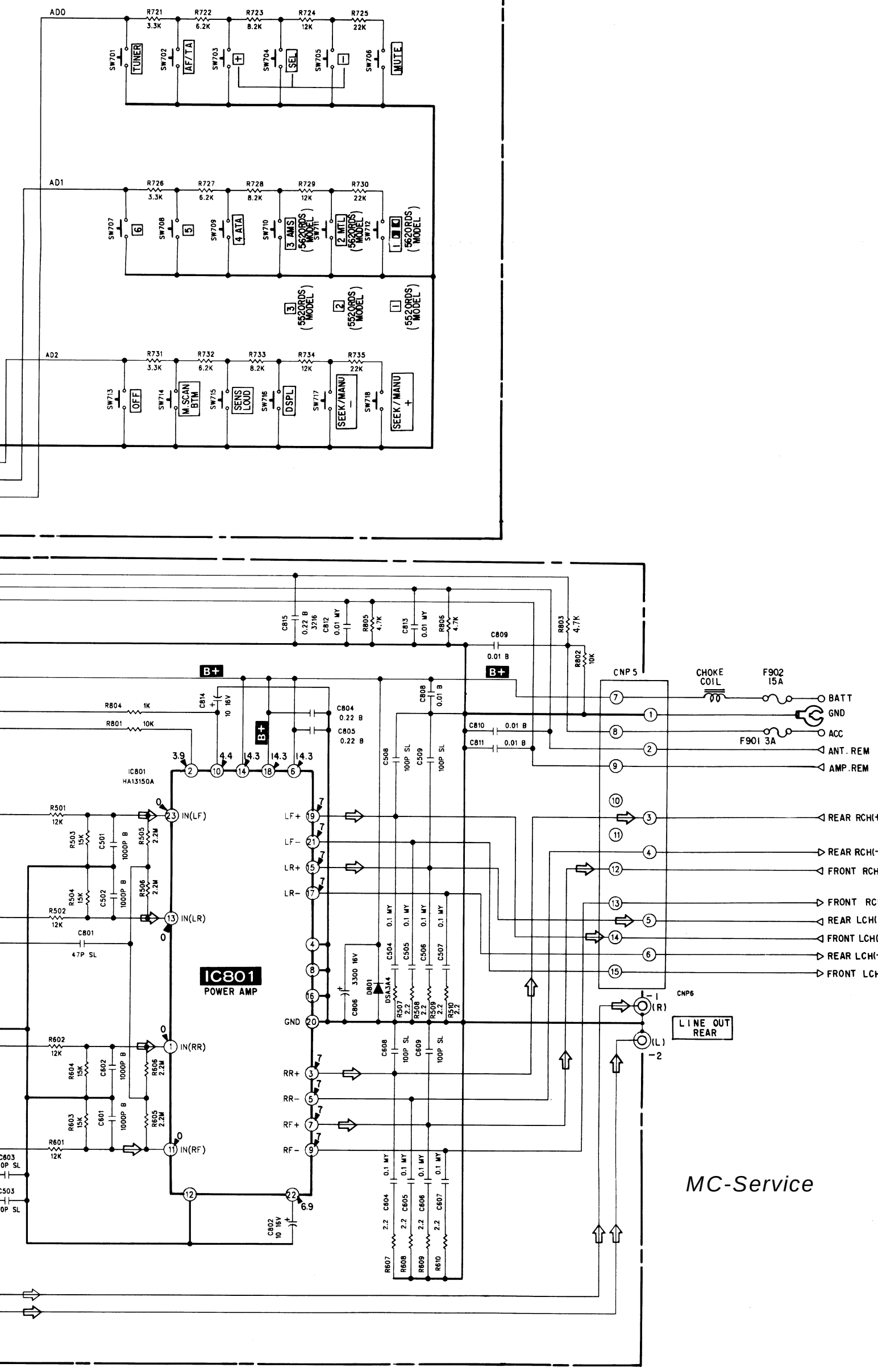
CNP2
CN52
SOL +B
SOL G
MOTOR +
MOTOR -
N/R
GND
FF/REW
GND
TAPE IN
GND
R CH
S GND
L CH

【MAIN BOARD

04

MC-Service


B+
R709 620
R710 620
R711 620
R712 620
R713 620
D711(SEL)
D714(SEEK/MANU)
D717(3)
D720(6)
D723(OFF)
D712(—)
D715(SEEK/MANU)
D718(2)
D721(5)
D724(AF/TA)
D713(MUTE)
D716(+)
D719(1)
D722(4)
D725(TUNER)
D711—725
CL—155Y/PG—CD—TU
R708 1.2K
R705 1.2K
R714 1K
JR702 0
D706 DAP202K
C703 0.47 F 3216
DTZ5.1B D701
D702 DTZ5.6B
D703 DTZ5.6B
D704 DTZ5.6B
D705 DTZ5.6B
PL703
PL704
PL701
PL702
(BACK LIGHT)
Q703 DTD113EK 10.9
Q704 DTD113EK 4.8
Q701 DTD113EK 0.1
Q702 DTD113EK 0.1
GREEN-LAMP SWITCH
GREEN-LED SWITCH
AMBER-LAMP SWITCH
AMBER-LED SWITCH
0
5.2
JR701 0 1/8W
CNJ3
12 11 10 9 8 7 6 5 4 3 2 1
SW COLOR LAMP+B LED+B INH AD0 AD1 AD2 CE CLK DATA GND
CNP3
CNP4
【MAIN BOARD】
AD0
R721 3.3K
SW701
TUNER
SW702
AD1
R726 3.3K
SW707
6
SW708
AD2
R731 3.3K
SW713
OFF
SW714
CNJ4
B.U1
B.U2
GND1
GND2
ACC
P.ANT
AMP_REM
BEEP
AMP_ON
AMP_MUTE
R_L
F_L
S.GND
F_R
R_R
R804 1K
R801 10K
IC801 HA13150A
R501 12K
R503 15K
C501 1000P B
R505 2.2M
R504 15K
C502 1000P B
R506 2.2M
R502 12K
C801 47P SL
R602 12K
R604 15K
C602 1000P B
R606 2.2M
R603 15K
C601 1000P B
R605 2.2M
R601 12K
C603 470P SL
C503 470P SL
【AMPLIFIER BOARD】



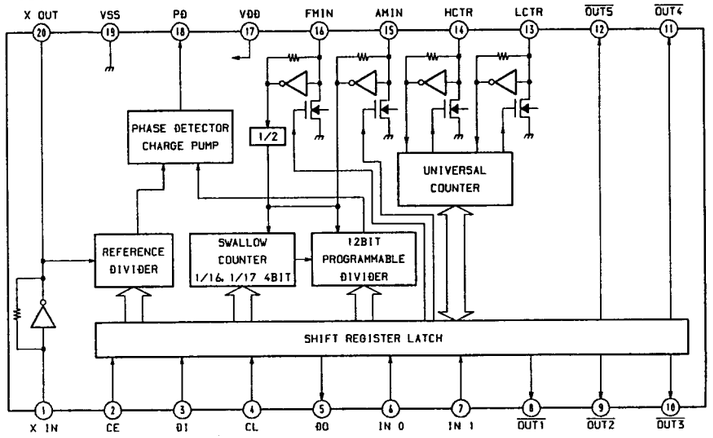
MC-Service

Note :

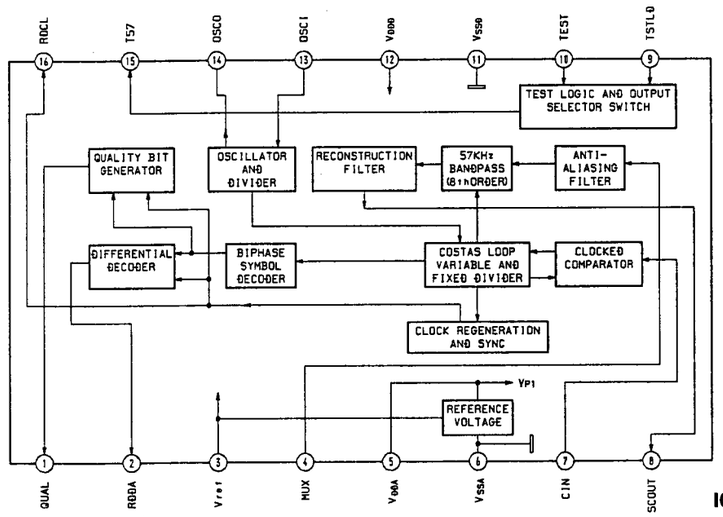
- All capacitors are in μF unless otherwise noted. pF : $\mu\mu$F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- B+ : B+ Line
- Power voltage is dc 14.4V and fed with regulated dc power supply from BATT and ACC terminals.
- Voltage is dc with respect to ground under no-signal (detuned) conditions.
- no mark: FM
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
  ⇨ : PB

• IC Block Diagrams

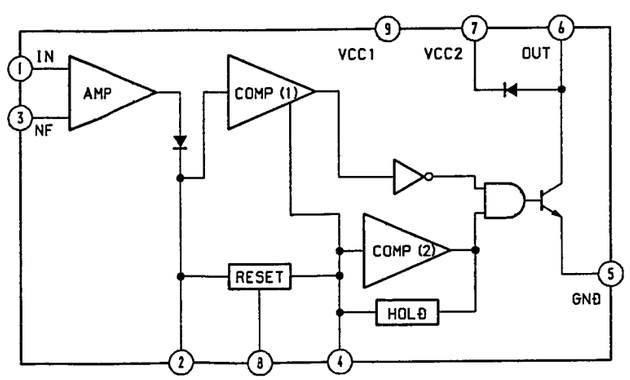
IC1 LC7216M



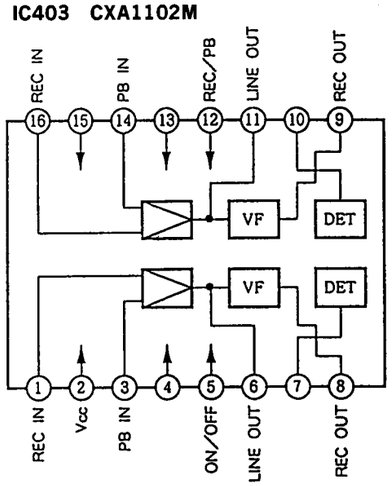
IC351 SAA6579T



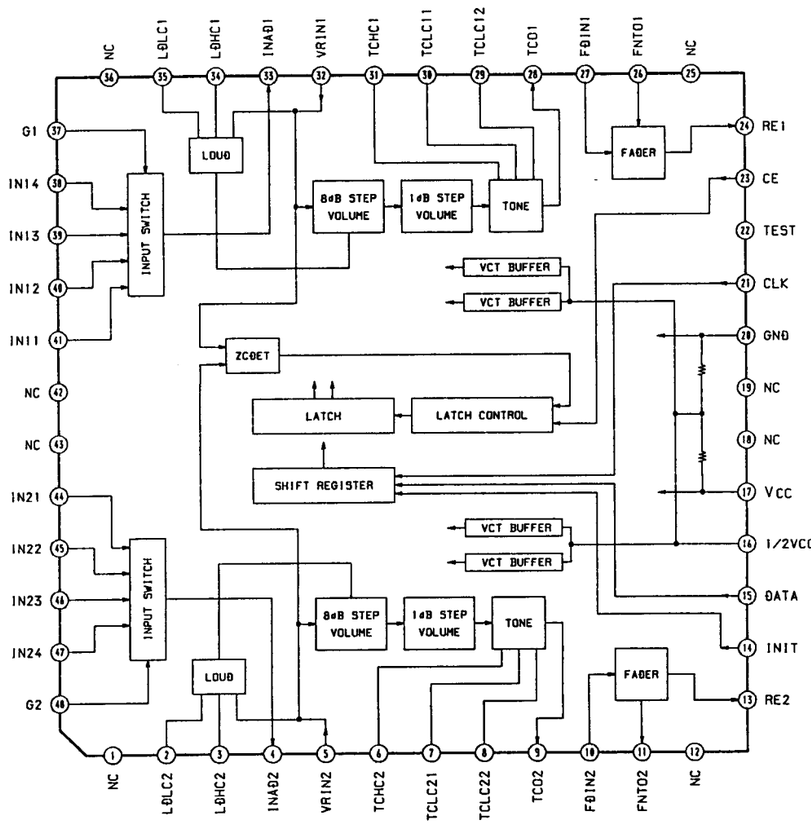
IC401 LA2010



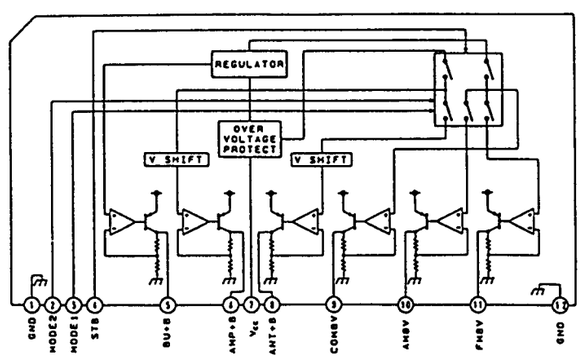
IC403 CXA1102M



IC404 CXA1646Q

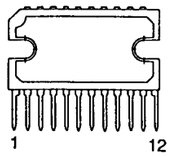


IC901 BA3910

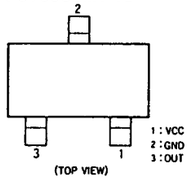


5-6. SEMICONDUCTOR LEAD LAYOUTS

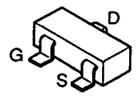
BA3910B-V2



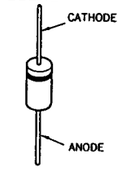
PST600EMT-T1



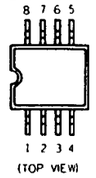
2SK1657-T1B



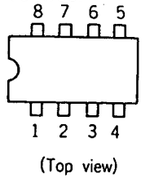
11ES2



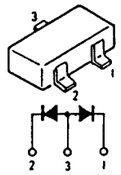
BA4558F
BA4560F



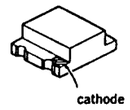
TC4W66F



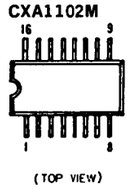
DAP202K



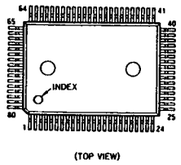
CL-155Y/PG-CD



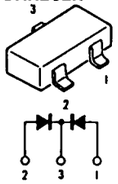
CXA1102M



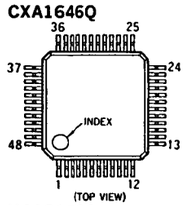
TC9240F



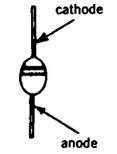
DAN202K



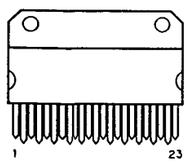
CXA1646Q



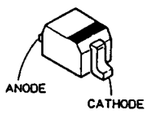
DTA114EK
DTA144EK
DTC114EK
DTC144EK
DTD113EK
DTC314TKH04
2SA1036K-R
2SA1162-G
2SC2412K-QR



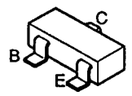
HA13150A



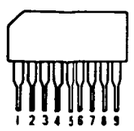
DTZ5.1B-TT11
DTZ5.6B



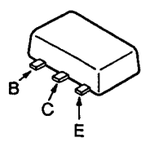
2SB1115A-YQ
2SB1123-R
2SD1615A-GP



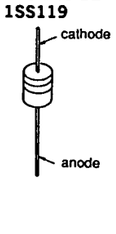
LA2010



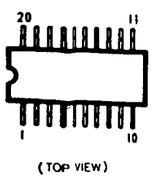
MTZJ-36
RB-100A
RD12ES-B2
RD5.6ES-B2
RD6.2ES-B2
RD6.8ES-B2
RD8.2ES-B2
RD9.1ES-B2
1SS119

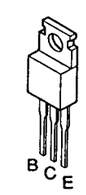


2SD2394-EF



LC7216M
MN1883220SZD



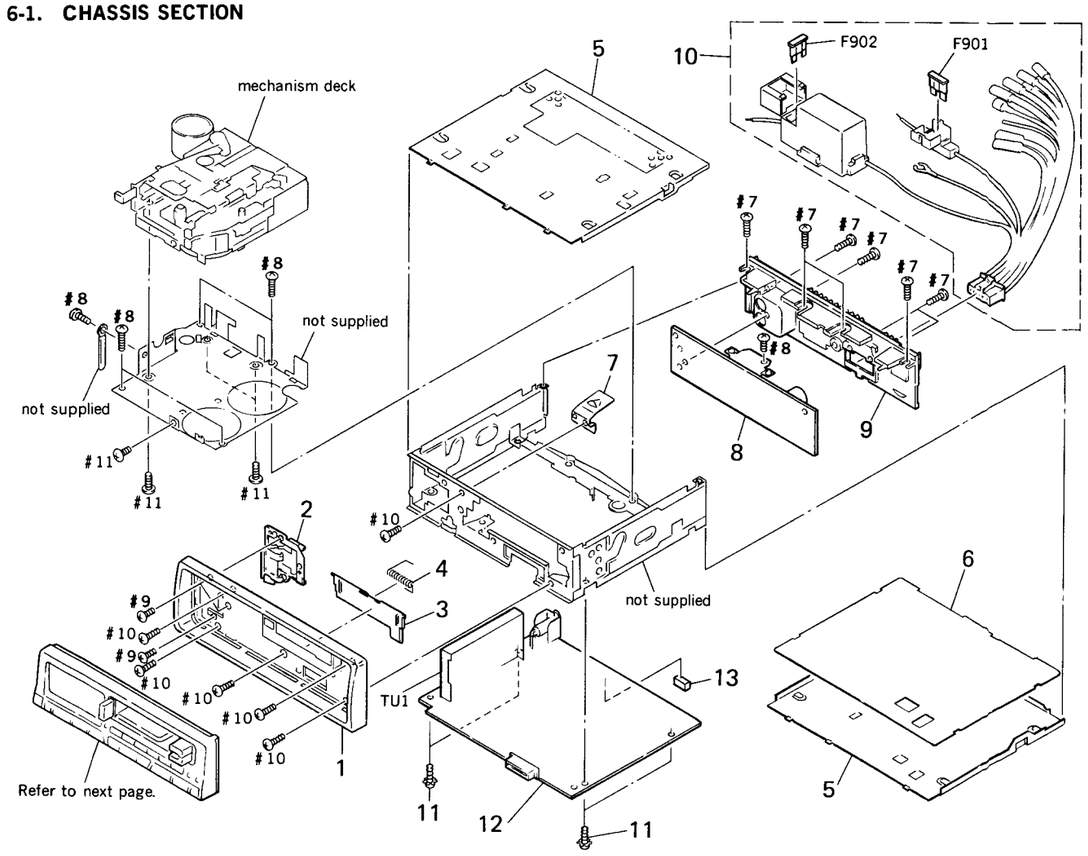


SECTION 6
EXPLODED VIEWS

NOTE:

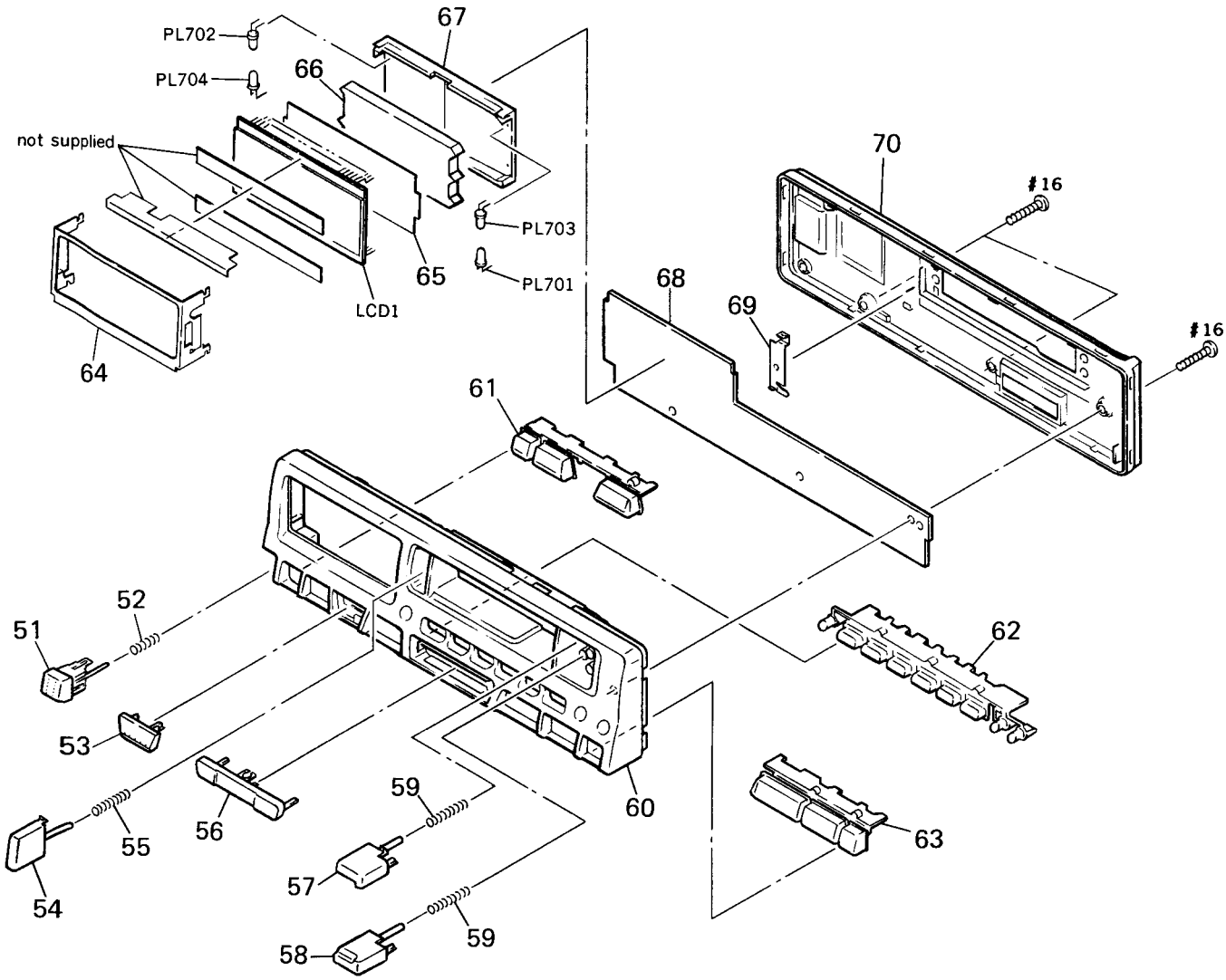
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE)... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
  G : German model

6-1. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
1	3-909-124-01	PANEL, SUB	
2	X-3367-636-1	LOCK ASSY	
3	3-909-717-01	DOOR, CASSETTE (XR-5620RDS:AEP)	
3	3-909-717-11	DOOR, CASSETTE (XR-5620RDS:G)	
3	3-909-717-21	DOOR, CASSETTE (XR-5520RDS:AEP)	
3	3-909-717-31	DOOR, CASSETTE (XR-5520RDS:G)	
4	3-377-892-01	SPRING (C DOOR), TORSION	
5	3-377-591-01	COVER	
6	3-377-593-21	INSULATOR	
7	3-909-119-01	PLATE, LOCK	
* 8	A-3295-935-A	AMPLIFIER BOARD, COMPLETE	
* 9	3-909-113-21	HEAT SINK	
10	1-765-082-11	CORD (WITH CONNECTOR)	
11	3-376-464-11	SCREW(+PTT 2.6X6),GROUND POINT	
* 12	A-3295-934-A	MAIN BOARD, COMPLETE (XR-5620RDS:G)	
* 12	A-3295-944-A	MAIN BOARD, COMPLETE (XR-5620RDS:AEP)	
* 12	A-3295-945-A	MAIN BOARD, COMPLETE (XR-5520RDS:G)	
* 12	A-3295-946-A	MAIN BOARD, COMPLETE (XR-5520RDS:AEP)	
13	9-911-841-XX	CUSHION, CASSETTE LID	
F901	1-533-326-11	FUSE (BLADE TYPE) (AUTO FUSE) (3A)	
F902	1-533-331-11	FUSE (BLADE TYPE) (AUTO FUSE) (15A)	
TU1	A-3282-003-A	TUNER UNIT (FM/AM)	

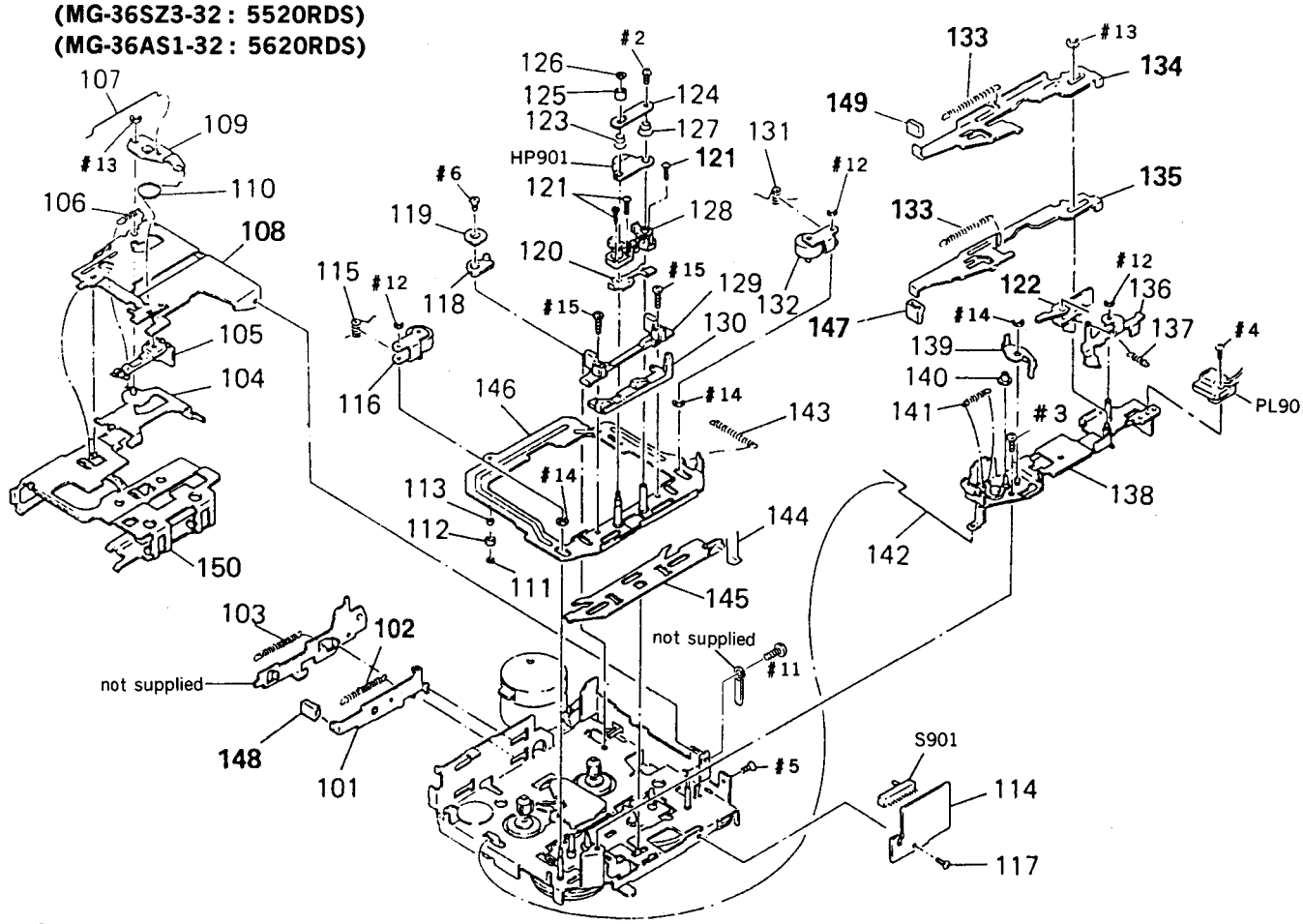
6-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	3-909-110-01	BUTTON (RELEASE)	
52	3-375-373-01	SPRING (RELEASE)	
53	3-909-129-01	BUTTON (SEL)	
54	X-3367-693-1	BUTTON (EJECT) ASSY	
55	3-375-371-11	SPRING (EJECT)	
56	3-909-126-01	BUTTON (SEEK)	
57	3-909-103-01	BUTTON (FF)	
58	3-909-104-01	BUTTON (REW)	
59	3-375-372-01	SPRING (F/R)	
60	3-909-122-01	PANEL, FRONT (XR-5620RDS)	
60	3-909-122-11	PANEL, FRONT (XR-5520RDS)	
61	3-909-128-01	BUTTON (MUTE)	
62	3-909-125-01	BUTTON (1-6)	

Ref. No.	Part No.	Description	Remark
63	3-909-127-01	BUTTON (OFF)	
* 64	3-909-118-01	PLATE (LCD), GROUND	
* 65	3-909-115-01	SHEET (REFLECTOR)	
* 66	3-909-112-01	PLATE, LIGHT GUIDE	
* 67	3-909-111-01	HOLDER (LCD)	
* 68	A-3295-937-A	SW BOARD, COMPLETE	
69	3-909-121-01	PLATE (F-S), GROUND	
70	3-909-123-01	PANEL, FRONT BACK	
LCD1	1-810-417-11	DISPLAY PANEL, LIQUID CRYSTAL	
PL701	1-518-646-11	LAMP, PILOT	
PL702	1-518-646-11	LAMP, PILOT	
PL703	1-518-648-11	LAMP, PILOT	
PL704	1-518-648-11	LAMP, PILOT	

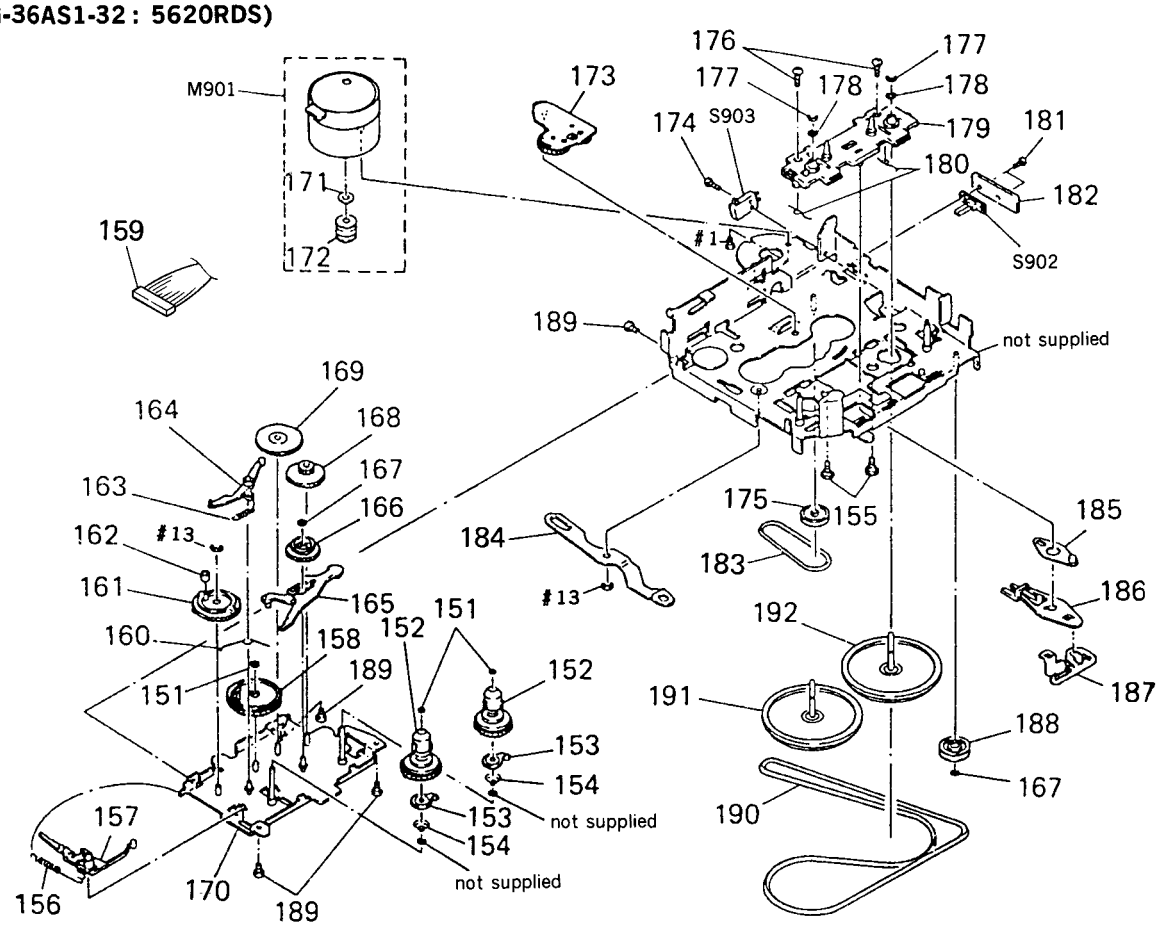
6-3. MECHANISM DECK SECTION 1
(MG-36SZ3-32 : 5520RDS)
(MG-36AS1-32 : 5620RDS)



Ref. No.	Part No.	Description	Remark
* 101	3-379-144-01	LEVER (S), EJECT	
102	3-392-950-01	SPRING	
103	3-392-951-01	SPRING	
* 104	3-392-921-01	LOCK ASSY, EJECT CAM	
105	3-392-972-01	HOOKER, TAPE	
106	3-392-953-01	SPRING	
107	3-392-969-01	LINK, RETURN	
108	3-375-383-01	HANGER (X), CASSETTE	
* 109	3-392-932-01	PLATE, CENTER	
110	3-392-961-01	SPRING (B)	
111	3-570-615-00	POLY-WASHER (DIA. 1.2)	
112	3-392-945-01	ROLLER (A), H.P	
113	3-392-942-01	ROLLER (B), H.P	
114	3-392-970-01	CHASSIS, SWITCH	
115	3-392-958-01	SPRING (R)	
116	3-375-378-01	ARM (R) ASSY, PINCH	
* 117	4-908-792-11	SCREW (B2X3), TAPPING, P1	
118	3-372-244-01	ARM (N), MUTE	
* 119	3-397-427-01	COLLAR, MUTE ARM	
120	3-377-908-01	SHIM (X), ADJUSTOR	
121	3-375-379-01	SCREW, AZIMUTH	
122	3-392-903-01	ARM, RELEASE (XR-5620RDS)	
123	3-392-956-01	SPRING (A)	
* 124	3-392-930-01	RETAINER, SPRING	
125	3-392-943-01	ROLLER, FF	
126	3-676-387-00	POLY-SLIDER (DIA. 1.6)	
127	3-392-955-01	SPRING (A)	
* 128	3-379-142-01	ARM (B), ADJUSTOR	
129	3-392-984-02	GUIDE, TAPE	

Ref. No.	Part No.	Description	Remark
130	3-377-909-02	LINK (X), ADJUSTOR	
131	3-392-957-01	SPRING (F)	
132	3-375-377-01	ARM (F) ASSY, PINCH	
133	3-392-948-01	SPRING	
* 134	3-379-118-01	LEVER (AS), FF (XR-5620RDS)	
* 134	3-379-145-01	LEVER (S), FF (XR-5520RDS)	
* 135	3-379-117-01	LEVER (AS), REW (XR-5620RDS)	
* 135	3-379-146-01	LEVER (S), REW (XR-5520RDS)	
* 136	3-392-904-01	ARM (A), LOCK (XR-5620RDS)	
* 136	3-392-935-01	ARM, LOCK (XR-5520RDS)	
137	3-392-902-01	SPRING (A) (XR-5620RDS)	
137	3-392-917-01	SPRING (XR-5520RDS)	
* 138	3-372-242-01	BRACKET ASSY (D), LEVER	
* 139	3-392-933-01	LEVER (B), CHANGE	
140	3-392-994-01	ROLLER, PROGRAM	
141	3-392-954-01	SPRING	
142	3-372-243-01	LINK (B), SELECTOR	
143	3-392-952-01	SPRING	
144	3-392-962-01	SPRING	
* 145	3-392-919-01	ARM ASSY, F,R SELECTION	
* 146	3-392-975-05	PLATE ASSY (S), HEAD	
* 147	3-379-139-01	BUTTON, REW	
* 148	3-379-140-01	BUTTON, EJECT	
* 149	3-379-141-01	BUTTON, FF	
150	3-375-384-01	HOLDER (X), CASSETTE	
HP901	1-543-717-11	HEAD, MAGNETIC (PLAYBACK)	
PL901	1-454-464-12	SOLENOID, PLUNGER (XR-5620RDS)	
S901	1-692-502-11	SWITCH, SLIDE (DIRECTION)	

6-4. MECHANISM DECK SECTION 2
(MG-36SZ3-32 : 5520RDS)
(MG-36AS1-32 : 5620RDS)



Ref. No.	Part No.	Description	Remark
151	3-676-387-00	POLY-SLIDER (DIA. 1.6)	
152	3-376-196-01	SPINDLE ASSY (S), REEL (XR-5520RDS)	
152	3-385-263-01	SPINDLE ASSY (D), REEL (XR-5620RDS)	
153	3-375-380-01	CAM ASSY, DETECTION	
154	3-370-619-01	SPRING, BACK TENSION	
155	3-392-918-01	SCREW, EJECT HOOK	
156	3-392-959-01	SPRING	
157	3-392-985-02	RATCHET	
158	3-392-990-01	GEAR, DETECTION	
159	3-387-912-01	CONNECTOR ASSY, 11P (XR-5520RDS)	
159	3-387-913-01	CONNECTOR ASSY, 13P (XR-5620RDS)	
160	3-392-960-01	SPRING	
161	3-392-987-01	GEAR, SELECTOR	
162	3-392-944-01	COLLAR (CELECTER GEAR)	
163	3-375-131-01	SPRING, GEAR LOCK ARM	
164	3-392-989-02	ARM, GEAR LOCK	
165	3-392-986-01	ARM, SENSOR	
166	3-392-915-01	GEAR, IDLE	
167	3-570-615-00	POLY-WASHER (DIA. 1.2)	
168	3-392-936-01	GEAR (A)	
169	3-392-937-01	GEAR (B)	
* 170	3-392-976-01	BASE ASSY, REEL	
* 171	3-392-912-01	WASHER, MYLAR	
* 172	3-392-913-01	PULLEY, MOTOR	

Ref. No.	Part No.	Description	Remark
173	3-392-916-01	ARM ASSY, TU GEAR	
174	3-318-203-11	SCREW (B1.7X6), TAPPING	
175	3-392-938-01	GEAR, PULLY	
176	3-318-204-81	SCREW (M1.7X3), TAPPING	
177	3-590-768-00	RING (A), E	
178	3-701-437-11	POLY-SLIDER (A)	
* 179	3-375-381-01	BRACKET ASSY (X), CM	
180	3-392-963-01	SPRING (R)	
181	3-318-204-91	SCREW (M1.7X4), TAPPING	
182	3-375-376-01	MUTE (PWB)	
183	3-375-375-02	BELT (C), SUB	
* 184	3-392-979-01	LEVER, REVERSE	
* 185	3-392-925-01	ARM (A) ASSY, F.R	
* 186	3-392-939-01	ARM, FF	
* 187	3-392-934-01	ARM (B), F.R	
188	3-392-941-01	PULLEY (A), IDLE	
* 189	4-908-792-11	SCREW (B2X3), TAPPING, P1	
190	3-392-967-01	BELT, MAIN	
191	3-392-995-02	FLYWHEEL ASSY (BR)	
192	3-392-926-02	FLYWHEEL ASSY (BF)	
M901	X-3364-496-1	MOTOR ASSY	
S902	1-692-065-11	SWITCH, LEAF (MUTE)	
S903	1-554-790-21	SWITCH, POWER (TAPE DET)	

AMPLIFIER

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA ..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

- Abbreviation
  G : German model

Ref. No.	Part No.	Description			Remark
*	A-3295-935-A	AMPLIFIER BOARD, COMPLETE			
		**********			
	7-621-770-67	SCREW +PTT 2.6X6 (S)			
		< CAPACITOR >			
C501	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V	
C502	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V	
C503	1-163-133-00	CERAMIC CHIP	470PF	5% 50V	
C504-507					
	1-136-165-00	FILM	0.1uF	5% 50V	
C508	1-163-117-00	CERAMIC CHIP	100PF	5% 50V	
C509	1-163-117-00	CERAMIC CHIP	100PF	5% 50V	
C601	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V	
C602	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V	
C603	1-163-133-00	CERAMIC CHIP	470PF	5% 50V	
C604-607					
	1-136-165-00	FILM	0.1uF	5% 50V	
C608	1-163-117-00	CERAMIC CHIP	100PF	5% 50V	
C609	1-163-117-00	CERAMIC CHIP	100PF	5% 50V	
C801	1-163-109-00	CERAMIC CHIP	47PF	5% 50V	
C802	1-126-157-11	ELECT	10uF	20% 16V	
C804	1-164-489-11	CERAMIC CHIP	0.22uF	10% 16V	
C805	1-164-489-11	CERAMIC CHIP	0.22uF	10% 16V	
C806	1-128-268-11	ELECT	3300uF	20% 16V	
C808-811					
	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C812	1-136-153-00	FILM	0.01uF	5% 50V	
C813	1-136-153-00	FILM	0.01uF	5% 50V	
C814	1-126-157-11	ELECT	10uF	20% 16V	
C815	1-164-299-11	CERAMIC CHIP	0.22uF	10% 25V	
		< CONNECTOR >			
* CNJ4	1-563-258-11	SOCKET, CONNECTOR 15P			
CNP5	1-764-426-21	PLUG, CONNECTOR 15P			
CNP6	1-764-424-21	JACK, PIN 2P (LINE OUT REAR)			
		< DIODE >			
D801	8-719-945-59	DIODE DSA3A4			

Ref. No.	Part No.	Description			Remark
		< IC >			
IC801	8-759-260-77	IC HA13150A			
		< RESISTOR >			
R501	1-216-075-00	METAL CHIP	12K	5% 1/10W	
R502	1-216-075-00	METAL CHIP	12K	5% 1/10W	
R503	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R504	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R505	1-216-129-00	METAL CHIP	2.2M	5% 1/10W	
R506	1-216-129-00	METAL CHIP	2.2M	5% 1/10W	
R507-510					
	1-216-298-00	METAL CHIP	2.2	5% 1/10W	
R601	1-216-075-00	METAL CHIP	12K	5% 1/10W	
R602	1-216-075-00	METAL CHIP	12K	5% 1/10W	
R603	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R604	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R605	1-216-129-00	METAL CHIP	2.2M	5% 1/10W	
R606	1-216-129-00	METAL CHIP	2.2M	5% 1/10W	
R607-610					
	1-216-298-00	METAL CHIP	2.2	5% 1/10W	
R801	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R802	1-216-222-00	METAL GLAZE	10K	5% 1/8W	
R803	1-216-214-00	METAL GLAZE	4.7K	5% 1/8W	
R804	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R805	1-216-214-00	METAL GLAZE	4.7K	5% 1/8W	
R806	1-216-214-00	METAL GLAZE	4.7K	5% 1/8W	
**********					

MAIN

Ref. No.	Part No.	Description			Remark
*	A-3295-934-A	MAIN BOARD, COMPLETE (XR-5620RDS:G)			
*	A-3295-944-A	MAIN BOARD, COMPLETE (XR-5620RDS:AEP)			
*	A-3295-945-A	MAIN BOARD, COMPLETE (XR-5520RDS:G)			
*	A-3295-946-A	MAIN BOARD, COMPLETE (XR-5520RDS:AEP)			
		**********			
		< CAPACITOR >			
C1	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C3-5					
	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C6-9					
	1-126-933-11	ELECT	100uF	20%	10V
C10	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C12	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V
C13	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C14	1-126-157-11	ELECT	10uF	20%	16V
C15	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C16	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C17	1-136-173-00	FILM	0.47uF	5%	50V
C18	1-136-169-00	FILM	0.22uF	5%	50V
C19	1-104-683-11	MYLAR	0.0047uF	5%	50V
C20	1-136-227-11	MYLAR	0.001uF	5%	50V
C21	1-136-159-00	FILM	0.033uF	5%	50V
C22	1-104-679-11	MYLAR	0.0022uF	5%	50V
C23-26					
	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C27	1-126-154-11	ELECT	47uF	20%	6.3V
C28	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C29	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C30	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C31	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C32	1-126-923-11	ELECT	220uF	20%	10V
C33	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C34	1-124-903-11	ELECT	1uF	20%	50V
C35	1-124-903-11	ELECT	1uF	20%	50V
C36	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C37	1-136-227-11	MYLAR	0.001uF	5%	50V
C101	1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C102	1-126-947-11	ELECT	47uF	20%	10V
C103	1-163-037-11	CERAMIC CHIP (XR-5620RDS)	0.022uF	10%	25V
C103	1-164-232-11	CERAMIC CHIP (XR-5520RDS)	0.01uF		50V
C104	1-163-809-11	CERAMIC CHIP (XR-5620RDS)	0.047uF	10%	25V
C105	1-124-903-11	ELECT (XR-5620RDS)	1uF	20%	50V
C106	1-124-254-00	ELECT (XR-5620RDS)	0.68uF	20%	50V
C107	1-126-301-11	ELECT	1uF	20%	50V
C108	1-126-301-11	ELECT	1uF	20%	50V
C109	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C110	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C111	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C112	1-124-464-11	ELECT	0.22uF	20%	50V
C113	1-126-157-11	ELECT	10uF	20%	16V
C114	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C116	1-126-157-11	ELECT	10uF	20%	16V
C117	1-126-157-11	ELECT	10uF	20%	16V
C118	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C201	1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C202	1-126-947-11	ELECT	47uF	20%	10V
C203	1-163-037-11	CERAMIC CHIP (XR-5620RDS)	0.022uF	10%	25V
C203	1-164-232-11	CERAMIC CHIP (XR-5520RDS)	0.01uF		50V
C204	1-163-809-11	CERAMIC CHIP (XR-5620RDS)	0.047uF	10%	25V
C205	1-124-903-11	ELECT (XR-5620RDS)	1uF	20%	50V
C206	1-124-254-00	ELECT (XR-5620RDS)	0.68uF	20%	50V
C207	1-126-301-11	ELECT	1uF	20%	50V
C208	1-126-301-11	ELECT	1uF	20%	50V
C209	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C210	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C211	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C212	1-124-464-11	ELECT	0.22uF	20%	50V
C213	1-126-157-11	ELECT	10uF	20%	16V
C214	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C216	1-126-157-11	ELECT	10uF	20%	16V
C217	1-126-157-11	ELECT	10uF	20%	16V
C218	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C301	1-124-584-00	ELECT	100uF	20%	10V
C302	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C303	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C304	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C305	1-163-077-00	CERAMIC CHIP	0.1uF		50V
C351	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C352	1-124-257-00	ELECT	2.2uF	20%	50V
C353	1-163-006-11	CERAMIC CHIP	560PF	10%	50V
C354	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C355	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C356	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C357	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C358	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C401	1-126-157-11	ELECT (XR-5620RDS)	10uF	20%	16V
C402	1-124-257-00	ELECT (XR-5620RDS)	2.2uF	20%	50V

MAIN

Ref. No.	Part No.	Description			Remark
C403	1-126-159-11	ELECT (XR-5620RDS)	0.47uF	20%	50V
C404	1-126-162-11	ELECT (XR-5620RDS)	3.3uF	20%	50V
C405	1-163-809-11	CERAMIC CHIP (XR-5620RDS)	0.047uF	10%	25V
C406	1-164-004-11	CERAMIC CHIP (XR-5620RDS)	0.1uF	10%	25V
C407	1-126-933-11	ELECT	100uF	20%	10V
C408	1-126-933-11	ELECT (XR-5620RDS)	100uF	20%	10V
C409	1-126-964-11	ELECT (XR-5620RDS)	10uF	20%	50V
C410	1-124-229-00	ELECT	33uF	20%	10V
C411	1-126-288-11	ELECT	4.7uF	20%	16V
C412	1-126-154-11	ELECT	47uF	20%	6.3V
C413	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C414	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C415	1-126-288-11	ELECT (XR-5620RDS)	4.7uF	20%	16V
C416	1-164-004-11	CERAMIC CHIP (XR-5620RDS)	0.1uF	10%	25V
C417	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C418	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C419	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C901	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C902	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C903	1-124-584-00	ELECT	100uF	20%	10V
C904	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C905	1-126-966-11	ELECT	33uF	20%	16V
C906	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C907	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C908	1-126-933-11	ELECT	100uF	20%	10V
C909	1-125-701-11	DOUBLE LAYER	0.047F		5.5V
C910	1-126-301-11	ELECT	1uF	20%	50V
C911-913	1-124-229-00	ELECT	33uF	20%	10V
C914	1-104-940-11	ELECT	10uF	20%	25V
C915	1-104-939-11	ELECT	47uF	20%	16V
C916	1-124-234-00	ELECT	22uF	20%	16V
C917	1-126-157-11	ELECT	10uF	20%	16V
C918	1-124-234-00	ELECT	22uF	20%	16V
C919	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C920	1-126-157-11	ELECT	10uF	20%	16V
C921	1-163-077-00	CERAMIC CHIP	0.1uF		50V
C922	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C923	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C924	1-136-165-00	FILM	0.1uF	5%	50V

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
CNP1	1-764-425-11	JACK (ANTENNA)	
* CNP2	1-506-993-11	PIN, CONNECTOR (PC BOARD) 11P (XR-5520RDS)	
* CNP2	1-506-995-11	PIN, CONNECTOR (PC BOARD) 13P (XR-5620RDS)	
CNP3	1-764-422-11	PLUG, CONNECTOR 12P	
* CNP4	1-506-744-11	PIN, CONNECTOR 15P	
		< DIODE >	
D3	8-719-110-08	DIODE RD8.2ES-B2	
D301	8-719-911-19	DIODE 1SS119	
D401	8-719-200-82	DIODE 11ES2	
D402	8-719-200-82	DIODE 11ES2 (XR-5620RDS)	
D901	8-719-109-89	DIODE RD5.6ESB2	
D902	8-719-109-97	DIODE RD6.8ES-B2	
D903	8-719-109-89	DIODE RD5.6ESB2	
D904	8-719-109-93	DIODE RD6.2ESB2	
D905	8-719-911-19	DIODE 1SS119	
D906	8-719-914-44	DIODE DAP202K	
D907	8-719-914-43	DIODE DAN202K	
D908	8-719-110-08	DIODE RD8.2ES-B2	
D909	8-719-914-43	DIODE DAN202K	
D910	8-719-110-31	DIODE RD12ES-B2	
D911	8-719-110-13	DIODE RD9.1ESB2	
D912	8-719-911-19	DIODE 1SS119	
D913	8-719-977-03	DIODE DTZ5.6B	
D914	8-719-977-03	DIODE DTZ5.6B	
D915	8-719-977-03	DIODE DTZ5.6B	
D916	8-719-977-03	DIODE DTZ5.6B	
D917	8-719-977-03	DIODE DTZ5.6B	
D918	8-719-977-03	DIODE DTZ5.6B	
D919	8-719-977-03	DIODE DTZ5.6B	
D920	8-719-109-89	DIODE RD5.6ESB2	
D922	8-719-981-50	DIODE RB-100A	
D923	8-719-911-19	DIODE 1SS119	
D924	8-719-982-29	DIODE MTZJ-36	
		< IC >	
IC1	8-759-823-81	IC LC7216M	
IC2	8-759-242-66	IC TC4W66F	
IC301	8-759-256-22	IC MN1883220SZD	
IC351	8-759-065-98	IC SAA6579T	
IC401	8-759-800-71	IC LA2010 (XR-5620RDS)	
IC402	8-759-924-46	IC BA4560F	
IC403	8-752-032-14	IC CXA1102M (XR-5620RDS)	
IC404	8-752-063-44	IC CXA1646Q	
IC405	8-759-909-71	IC BA4558F	
IC406	8-759-909-71	IC BA4558F	

Ref. No.	Part No.	Description			Remark
IC901	8-759-182-75	IC BA3910B-V2			
IC902	8-759-167-83	IC PST600EMT-T1			
		< JUMPER RESISTOR >			
JR1	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR2	1-216-296-00	METAL GLAZE (XR-5620RDS)	0	5%	1/8W
JR3-5					
	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR8	1-216-295-00	METAL CHIP (XR-5620RDS)	0	5%	1/10W
JR9	1-216-295-00	METAL CHIP	0	5%	1/10W
JR10	1-216-295-00	METAL CHIP	0	5%	1/10W
JR13	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR15	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR19	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR21	1-216-296-00	METAL GLAZE (XR-5620RDS)	0	5%	1/8W
JR23-25					
	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR26	1-216-295-00	METAL CHIP	0	5%	1/10W
JR29	1-216-295-00	METAL CHIP	0	5%	1/10W
JR30	1-216-295-00	METAL CHIP	0	5%	1/10W
JR31-34					
	1-216-295-00	METAL CHIP (XR-5520RDS)	0	5%	1/10W
JR35	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR36	1-216-295-00	METAL CHIP	0	5%	1/10W
JR37	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR38	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR39	1-216-295-00	METAL CHIP	0	5%	1/10W
		< COIL >			
L351	1-410-509-11	INDUCTOR	10uH		
L901	1-410-509-11	INDUCTOR	10uH		
		< TRANSISTOR >			
Q1	8-729-900-53	TRANSISTOR	DTC114EK		
Q2	8-729-901-04	TRANSISTOR	DTA114EK		
Q3	8-729-900-53	TRANSISTOR	DTC114EK		
Q4	8-729-021-94	TRANSISTOR	2SK1657-T1B		
Q6	8-729-920-21	TRANSISTOR	DTC314TKH04		
Q7	8-729-920-21	TRANSISTOR	DTC314TKH04		
Q8	8-729-216-22	TRANSISTOR	2SA1162-G		
Q101	8-729-901-01	TRANSISTOR	DTC144EK (XR-5620RDS)		
Q102	8-729-920-21	TRANSISTOR	DTC314TKH04		
Q103	8-729-920-21	TRANSISTOR	DTC314TKH04		
Q201	8-729-901-01	TRANSISTOR	DTC144EK (XR-5620RDS)		
Q202	8-729-920-21	TRANSISTOR	DTC314TKH04		
Q203	8-729-920-21	TRANSISTOR	DTC314TKH04		

Ref. No.	Part No.	Description			Remark
Q301	8-729-901-04	TRANSISTOR	DTA114EK		
Q302	8-729-901-04	TRANSISTOR	DTA114EK		
Q351	8-729-901-04	TRANSISTOR	DTA114EK		
Q352	8-729-900-53	TRANSISTOR	DTC114EK		
Q401	8-729-106-60	TRANSISTOR	2SB1115A-YQ		
Q402	8-729-900-53	TRANSISTOR	DTC114EK		
Q403	8-729-216-22	TRANSISTOR	2SA1162-G (XR-5620RDS)		
Q404	8-729-807-33	TRANSISTOR	2SB1123-R (XR-5620RDS)		
Q405	8-729-901-04	TRANSISTOR	DTA114EK (XR-5620RDS)		
Q406	8-729-920-74	TRANSISTOR	2SC2412K-QR (XR-5620RDS)		
Q407	8-729-920-74	TRANSISTOR	2SC2412K-QR		
Q901	8-729-901-98	TRANSISTOR	2SA1036K-R		
Q902	8-729-900-53	TRANSISTOR	DTC114EK		
Q903	8-729-901-06	TRANSISTOR	DTA144EK		
Q904	8-729-901-01	TRANSISTOR	DTC144EK		
Q905	8-729-106-68	TRANSISTOR	2SD1615A-GP		
Q906	8-729-216-22	TRANSISTOR	2SA1162-G		
Q907	8-729-216-22	TRANSISTOR	2SA1162-G		
Q908	8-729-920-74	TRANSISTOR	2SC2412K-QR		
Q909	8-729-019-01	TRANSISTOR	2SD2394-EF		
Q910	8-729-106-68	TRANSISTOR	2SD1615A-GP		
		< RESISTOR >			
R1	1-216-049-00	METAL CHIP	1K	5%	1/10W
R2	1-247-807-11	CARBON	100	5%	1/4W
R6	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R7	1-216-045-00	METAL CHIP	680	5%	1/10W
R8	1-216-073-00	METAL CHIP	10K	5%	1/10W
R9	1-216-081-00	METAL CHIP	22K	5%	1/10W
R10	1-216-105-00	METAL CHIP	220K	5%	1/10W
R11	1-216-119-00	METAL CHIP	820K	5%	1/10W
R12	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R13	1-216-073-00	METAL CHIP	10K	5%	1/10W
R14	1-216-049-00	METAL CHIP	1K	5%	1/10W
R15	1-216-075-00	METAL CHIP	12K	5%	1/10W
R16	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R17	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R18	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R19	1-216-073-00	METAL CHIP	10K	5%	1/10W
R20	1-247-811-31	CARBON	150	5%	1/4W
R21	1-216-220-00	METAL GLAZE (XR-5520RDS:AEP)	8.2K	5%	1/8W
R21	1-216-224-00	METAL GLAZE (XR-5520RDS:G, XR-5620RDS)	12K	5%	1/8W
R22	1-249-395-11	CARBON	15	5%	1/4W
R23	1-249-391-11	CARBON	6.8	5%	1/4W
R24	1-249-391-11	CARBON	6.8	5%	1/4W
R25	1-249-417-11	CARBON	1K	5%	1/4W
R26	1-216-089-00	METAL GLAZE	47K	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R27	1-249-393-11	CARBON	10	5%	1/4W
R28	1-216-073-00	METAL CHIP	10K	5%	1/10W
R29	1-216-073-00	METAL CHIP	10K	5%	1/10W
R101	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R102	1-216-069-00	METAL CHIP (XR-5620RDS)	6.8K	5%	1/10W
R102	1-216-077-00	METAL CHIP (XR-5520RDS)	15K	5%	1/10W
R103	1-216-105-00	METAL CHIP (XR-5620RDS)	220K	5%	1/10W
R103	1-216-115-00	METAL CHIP (XR-5520RDS)	560K	5%	1/10W
R104	1-216-200-00	METAL GLAZE	1.2K	5%	1/8W
R105	1-216-053-00	METAL CHIP (XR-5620RDS)	1.5K	5%	1/10W
R106	1-216-097-00	METAL CHIP (XR-5620RDS)	100K	5%	1/10W
R107	1-216-083-00	METAL CHIP (XR-5620RDS)	27K	5%	1/10W
R108	1-216-041-00	METAL CHIP (XR-5520RDS:AEP)	470	5%	1/10W
R108	1-216-049-00	METAL CHIP (XR-5520RDS:G)	1K	5%	1/10W
R108	1-216-071-00	METAL CHIP (XR-5620RDS:AEP)	8.2K	5%	1/10W
R108	1-216-075-00	METAL CHIP (XR-5620RDS:G)	12K	5%	1/10W
R110	1-216-113-00	METAL CHIP	470K	5%	1/10W
R111	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R112	1-216-073-00	METAL CHIP	10K	5%	1/10W (AEP)
R112	1-216-077-00	METAL CHIP	15K	5%	1/10W (G)
R113	1-216-073-00	METAL CHIP	10K	5%	1/10W
R114	1-216-073-00	METAL CHIP	10K	5%	1/10W
R115	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R116	1-216-049-00	METAL CHIP	1K	5%	1/10W
R117	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R118	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R119	1-216-238-00	METAL GLAZE (XR-5520RDS:AEP)	47K	5%	1/8W
R119	1-216-222-00	METAL GLAZE (XR-5520RDS:G, XR-5620RDS)	10K	5%	1/8W
R120	1-216-017-00	METAL CHIP (XR-5520RDS)	47	5%	1/10W
R201	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R202	1-216-069-00	METAL CHIP (XR-5620RDS)	6.8K	5%	1/10W
R202	1-216-077-00	METAL CHIP (XR-5520RDS)	15K	5%	1/10W
R203	1-216-105-00	METAL CHIP (XR-5620RDS)	220K	5%	1/10W
R203	1-216-115-00	METAL CHIP (XR-5520RDS)	560K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R204	1-216-200-00	METAL GLAZE	1.2K	5%	1/8W
R205	1-216-053-00	METAL CHIP (XR-5620RDS)	1.5K	5%	1/10W
R206	1-216-097-00	METAL CHIP (XR-5620RDS)	100K	5%	1/10W
R207	1-216-083-00	METAL CHIP (XR-5620RDS)	27K	5%	1/10W
R208	1-216-041-00	METAL CHIP (XR-5520RDS:AEP)	470	5%	1/10W
R208	1-216-049-00	METAL CHIP (XR-5520RDS:G)	1K	5%	1/10W
R208	1-216-071-00	METAL CHIP (XR-5620RDS:AEP)	8.2K	5%	1/10W
R208	1-216-075-00	METAL CHIP (XR-5620RDS:G)	12K	5%	1/10W
R210	1-216-113-00	METAL CHIP	470K	5%	1/10W
R211	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R212	1-216-073-00	METAL CHIP	10K	5%	1/10W (AEP)
R212	1-216-077-00	METAL CHIP	15K	5%	1/10W (G)
R213	1-216-073-00	METAL CHIP	10K	5%	1/10W
R214	1-216-073-00	METAL CHIP	10K	5%	1/10W
R215	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R216	1-216-049-00	METAL CHIP	1K	5%	1/10W
R217	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R218	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R219	1-216-222-00	METAL GLAZE (XR-5520RDS:G, XR-5620RDS)	10K	5%	1/8W
R219	1-216-238-00	METAL GLAZE (XR-5520RDS:AEP)	47K	5%	1/8W
R220	1-216-017-00	METAL CHIP (XR-5520RDS)	47	5%	1/10W
R301-307	1-216-049-00	METAL CHIP	1K	5%	1/10W
R308	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R309	1-216-049-00	METAL CHIP	1K	5%	1/10W
R310	1-216-097-00	METAL CHIP	100K	5%	1/10W
R311-313	1-216-049-00	METAL CHIP (XR-5620RDS)	1K	5%	1/10W
R314-316	1-216-097-00	METAL CHIP	100K	5%	1/10W
R319	1-216-097-00	METAL CHIP	100K	5%	1/10W (G)
R320	1-216-089-00	METAL GLAZE	47K	5%	1/10W (AEP)
R321	1-216-049-00	METAL CHIP	1K	5%	1/10W
R322	1-216-049-00	METAL CHIP	1K	5%	1/10W
R324	1-216-049-00	METAL CHIP	1K	5%	1/10W
R326	1-216-097-00	METAL CHIP	100K	5%	1/10W
R327-329	1-216-097-00	METAL CHIP (XR-5620RDS)	100K	5%	1/10W
R330	1-216-097-00	METAL CHIP	100K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R331-333					
	1-216-089-00	METAL GLAZE (XR-5520RDS)	47K	5%	1/10W
R334	1-216-097-00	METAL CHIP	100K	5%	1/10W
R336	1-216-073-00	METAL CHIP	10K	5%	1/10W
R337	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R338	1-216-097-00	METAL CHIP	100K	5%	1/10W
R339-341					
	1-249-417-11	CARBON	1K	5%	1/4W
R342	1-216-109-00	METAL CHIP	330K	5%	1/10W
R343	1-216-097-00	METAL CHIP	100K	5%	1/10W
R351	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R402	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R403	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R404	1-216-073-00	METAL CHIP	10K	5%	1/10W
R405	1-216-057-00	METAL CHIP (XR-5620RDS)	2.2K	5%	1/10W
R407	1-216-097-00	METAL CHIP (XR-5620RDS)	100K	5%	1/10W
R408	1-216-114-00	METAL GLAZE (XR-5620RDS)	510K	5%	1/10W
R409	1-216-051-00	METAL CHIP (XR-5620RDS)	1.2K	5%	1/10W
R410	1-216-088-00	METAL CHIP (XR-5620RDS)	43K	5%	1/10W
R411	1-249-429-11	CARBON (XR-5620RDS)	10K	5%	1/4W
R413	1-216-021-00	METAL CHIP (XR-5620RDS)	68	5%	1/10W
R414	1-216-111-00	METAL CHIP	390K	5%	1/10W
R415	1-249-391-11	CARBON	6.8	5%	1/4W
R416	1-216-021-00	METAL CHIP	68	5%	1/10W
R417	1-216-073-00	METAL CHIP (XR-5620RDS)	10K	5%	1/10W
R418	1-216-121-00	METAL CHIP	1M	5%	1/10W
R419	1-216-121-00	METAL CHIP	1M	5%	1/10W
R420	1-216-073-00	METAL CHIP (XR-5620RDS)	10K	5%	1/10W
R421	1-216-073-00	METAL CHIP (XR-5620RDS)	10K	5%	1/10W
R901	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R902-904					
	1-216-049-00	METAL CHIP	1K	5%	1/10W
R905-907					
	1-216-085-00	METAL CHIP	33K	5%	1/10W
R908	1-216-049-00	METAL CHIP	1K	5%	1/10W
R909	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R910	1-216-073-00	METAL CHIP	10K	5%	1/10W
R911	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R912	1-216-113-00	METAL CHIP	470K	5%	1/10W
R913	1-216-105-00	METAL CHIP	220K	5%	1/10W
R914	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R915	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R916	1-216-041-00	METAL CHIP	470	5%	1/10W
R917	1-216-073-00	METAL CHIP	10K	5%	1/10W
R918	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R919	1-216-105-00	METAL CHIP	220K	5%	1/10W
R920	1-216-079-00	METAL CHIP	18K	5%	1/10W
R921	1-216-097-00	METAL CHIP	100K	5%	1/10W
R922	1-216-081-00	METAL CHIP	22K	5%	1/10W
R923	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R924	1-216-073-00	METAL CHIP	10K	5%	1/10W
R925	1-216-035-00	METAL CHIP	270	5%	1/10W
R926	1-216-049-00	METAL CHIP	1K	5%	1/10W
R927	1-216-025-00	METAL CHIP	100	5%	1/10W
R928	1-216-045-00	METAL CHIP	680	5%	1/10W
R929	1-216-049-00	METAL CHIP	1K	5%	1/10W
R931	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R932-934					
	1-216-049-00	METAL CHIP	1K	5%	1/10W
R935	1-249-421-11	CARBON	2.2K	5%	1/4W
R936	1-216-049-00	METAL CHIP	1K	5%	1/10W
		< VARIABLE RESISTOR >			
RV1	1-238-605-31	RES, ADJ, CARBON 470K			
RV101	1-238-596-11	RES, ADJ, CARBON 470 (XR-5620RDS)			
RV201	1-238-596-11	RES, ADJ, CARBON 470 (XR-5620RDS)			
		< SWITCH >			
S1	1-570-940-11	SWITCH, KEY BOARD (RESET)			
S301	1-571-478-11	SWITCH, SLIDE (POWER SELECT)			
		< TUNER >			
TU1	A-3282-003-A	TUNER UNIT (FM/AM)			
		< VIBRATOR >			
X1	1-577-126-51	VIBRATOR, CRYSTAL (7.2MHz)			
X301	1-579-952-21	VIBRATOR, CERAMIC (8MHz)			
X302	1-567-098-00	OSCILLATOR, CRYSTAL (32.768kHz)			
X351	1-579-900-21	VIBRATOR, CRYSTAL (4.332MHz)			

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SW

Ref. No.	Part No.	Description	Remark
*	A-3295-937-A	SW BOARD, COMPLETE	
		**********	
*	3-909-111-01	HOLDER (LCD)	
*	3-909-112-01	PLATE, LIGHT GUIDE	
*	3-909-115-01	SHEET (REFLECTOR)	
*	3-909-118-01	PLATE (LCD), GROUND	
		< CAPACITOR >	
C701	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C702	1-164-161-11	CERAMIC CHIP 0.0022uF 10% 100V	
C703	1-162-637-11	CERAMIC CHIP 0.47uF 16V	
		< CONNECTOR >	
CNJ3	1-764-423-11	PIN, CONNECTOR 12P	
		< DIODE >	
D701	8-719-976-99	DIODE DTZ5.1B	
D702	8-719-977-03	DIODE DTZ5.6B	
D703	8-719-977-03	DIODE DTZ5.6B	
D704	8-719-977-03	DIODE DTZ5.6B	
D705	8-719-977-03	DIODE DTZ5.6B	
D706	8-719-914-44	DIODE DAP202K	
D711	8-719-987-45	LED CL-155Y/PG-CD (SEL)	
D712	8-719-987-45	LED CL-155Y/PG-CD (-)	
D713	8-719-987-45	LED CL-155Y/PG-CD (MUTE)	
D714	8-719-987-45	LED CL-155Y/PG-CD (SEEK/MANU +)	
D715	8-719-987-45	LED CL-155Y/PG-CD (SEEK/MANU -)	
D716	8-719-987-45	LED CL-155Y/PG-CD (+)	
D717	8-719-987-45	LED CL-155Y/PG-CD (3)	
D718	8-719-987-45	LED CL-155Y/PG-CD (2)	
D719	8-719-987-45	LED CL-155Y/PG-CD (1)	
D720	8-719-987-45	LED CL-155Y/PG-CD (6)	
D721	8-719-987-45	LED CL-155Y/PG-CD (5)	
D722	8-719-987-45	LED CL-155Y/PG-CD (4)	
D723	8-719-987-45	LED CL-155Y/PG-CD (OFF)	
D724	8-719-987-45	LED CL-155Y/PG-CD (AF/TA)	
D725	8-719-987-45	LED CL-155Y/PG-CD (TUNER)	
		< IC >	
IC701	8-759-246-16	IC TC9240F	
		< JUMPER RESISTOR >	
JR701	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR702	1-216-295-00	METAL CHIP 0 5% 1/10W	
		< LIQUID CRYSTAL DISPLAY >	
LCD1	1-810-417-11	DISPLAY PANEL, LIQUID CRYSTAL	

Ref. No.	Part No.	Description	Remark
		< PILOT LAMP >	
PL701	1-518-646-11	LAMP, PILOT	
PL702	1-518-646-11	LAMP, PILOT	
PL703	1-518-648-11	LAMP, PILOT	
PL704	1-518-648-11	LAMP, PILOT	
		< TRANSISTOR >	
Q701	8-729-904-66	TRANSISTOR DTD113EK	
Q702	8-729-904-66	TRANSISTOR DTD113EK	
Q703	8-729-904-66	TRANSISTOR DTD113EK	
Q704	8-729-904-66	TRANSISTOR DTD113EK	
		< RESISTOR >	
R701-703			
	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R704	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R705	1-216-051-00	METAL CHIP 1.2K 5% 1/10W	
R706	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R707	1-216-043-00	METAL CHIP 560 5% 1/10W	
R708	1-216-051-00	METAL CHIP 1.2K 5% 1/10W	
R709-713			
	1-216-193-00	METAL GLAZE 620 5% 1/8W	
R714	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R721	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R722	1-216-068-00	METAL CHIP 6.2K 5% 1/10W	
R723	1-216-071-00	METAL CHIP 8.2K 5% 1/10W	
R724	1-216-075-00	METAL CHIP 12K 5% 1/10W	
R725	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R726	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R727	1-216-068-00	METAL CHIP 6.2K 5% 1/10W	
R728	1-216-071-00	METAL CHIP 8.2K 5% 1/10W	
R729	1-216-075-00	METAL CHIP 12K 5% 1/10W	
R730	1-216-230-00	METAL GLAZE 22K 5% 1/8W	
R731	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R732	1-216-068-00	METAL CHIP 6.2K 5% 1/10W	
R733	1-216-071-00	METAL CHIP 8.2K 5% 1/10W	
R734	1-216-075-00	METAL CHIP 12K 5% 1/10W	
R735	1-216-081-00	METAL CHIP 22K 5% 1/10W	
		< SWITCH >	
SW701	1-692-386-21	SWITCH (TUNER)	
SW702	1-572-704-21	SWITCH, KEY BOARD (AF/TA)	
SW703	1-572-704-21	SWITCH, KEY BOARD (+)	
SW704	1-692-386-21	SWITCH (SEL)	
SW705	1-572-704-21	SWITCH, KEY BOARD (-)	
SW706	1-572-704-21	SWITCH, KEY BOARD (MUTE)	
SW707	1-572-704-21	SWITCH, KEY BOARD (6)	
SW708	1-692-386-21	SWITCH (5)	
SW709	1-692-386-21	SWITCH (4 ATA)	

Ref. No.	Part No.	Description	Remark
SW710	1-692-386-21	SWITCH (3) (XR-5520RDS)	
SW710	1-692-386-21	SWITCH (3 AMS) (XR-5620RDS)	
SW711	1-572-704-21	SWITCH, KEY BOARD (2) (XR-5520RDS)	
SW711	1-572-704-21	SWITCH, KEY BOARD (2 MTL) (XR-5620RDS)	
SW712	1-572-704-21	SWITCH, KEY BOARD (1) (XR-5520RDS)	
SW712	1-572-704-21	SWITCH, KEY BOARD (1 □□) (XR-5620RDS)	
SW713	1-572-704-21	SWITCH, KEY BOARD (OFF)	
SW714	1-572-704-21	SWITCH, KEY BOARD (M. SCAN BTM)	
SW715	1-572-704-21	SWITCH, KEY BOARD (SENS LOUD)	
SW716	1-572-704-21	SWITCH, KEY BOARD (DSPL)	
SW717	1-572-704-21	SWITCH, KEY BOARD (SEEK/MANU -)	
SW718	1-692-386-21	SWITCH (SEEK/MANU +)	
		MISCELLANEOUS	
10	1-765-082-11	CORD (WITH CONNECTOR)	
F901	1-533-326-11	FUSE (BLADE TYPE) (AUTO FUSE) (3A)	
F902	1-533-331-11	FUSE (BLADE TYPE) (AUTO FUSE) (15A)	
HP901	1-543-717-11	HEAD, MAGNETIC (PLAYBACK)	
M901	X-3364-496-1	MOTOR ASSY	
PL901	1-454-464-12	SOLENOID, PLUNGER (XR-5620RDS)	
S901	1-692-502-11	SWITCH, SLIDE (DIRECTION)	
S902	1-692-065-11	SWITCH, LEAF (MUTE)	
S903	1-554-790-21	SWITCH, POWER (TAPE DET)	

HARDWARE LIST

#1	7-621-255-15	SCREW +P 2X3	
#2	7-621-255-20	SCREW +P 2X4	
#3	7-621-255-25	SCREW +PTT 2X4 (S)	
#4	7-621-255-40	SCREW +P 2X6 (XR-5620RDS)	
#5	7-621-555-10	SCREW +K 2X3	
#6	7-621-591-00	SCREW +K 2X4	
#7	7-621-770-XX	SCREW +PTT 2.6X8 (S)	
#8	7-621-770-67	SCREW +PTT 2.6X6 (S)	
#9	7-621-772-10	SCREW +B 2X4	
#10	7-621-773-95	SCREW +PTT 2.6X6 (S)	
#11	7-621-775-08	SCREW +P 2.6X3	
#12	7-624-102-04	STOP RING 1.5, TYPE -E	
#13	7-624-104-04	STOP RING 2.0, TYPE -E	
#14	7-624-118-01	RING, RETAINING E-2.5	
#15	7-627-553-88	SCREW, PRECISION +P 2X7	
#16	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT	

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
*	3-378-800-01	CUSHION (UPPER)	
*	3-378-801-01	CUSHION (LOWER)	
	3-758-229-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, ITALIAN)	
	3-758-229-41	MANUAL, INSTRUCTION (DUTCH, SWEDISH, SPANISH, PORTUGUESE)	(AEP)
	3-758-230-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH, GERMAN, ITALIAN, DUTCH, SWEDISH, SPANISH, PORTUGUESE)	
*	3-911-567-01	INDIVIDUAL CARTON (XR-5620RDS:AEP)	
*	3-911-569-01	INDIVIDUAL CARTON (XR-5620RDS:G)	
*	3-911-571-01	INDIVIDUAL CARTON (XR-5520RDS:AEP)	
*	3-911-573-01	INDIVIDUAL CARTON (XR-5520RDS:G)	
	X-3368-605-1	CASE ASSY	
		MOUNTING HARDWARE	
* 201	X-3365-198-1	FRAME ASSY, FITTING	
202	3-386-828-01	SCREW, FITTING	
* 203	3-358-697-01	BUSHING	
204	3-909-731-01	KEY